Government
Publications

SESSIONAL PAPERS

VOLUME 10

FIFTH SESSION OF THE TWELFTH PARLIAMENT

OF THE

DOMINION OF CANADA

SESSION 1915

VOLUME L.

1091586

ALPHABETICAL INDEX

TO THE

SESSIONAL PAPERS

OF THE

PARLIAMENT OF CANADA

FIFTH SESSION, TWELFTH PARLIAMENT, 1915.

A

Abercorn, Quebec—*re* number, salaries of employees at Customs port of in 1911.. 180
Agriculture—Report of the Minister of for year ended March 31, 1914..... 15
Agricultural Instruction Act—Report on for 1913-14.. 93
Agricultural Instruction Act—Return *re* arrangements between Government and Provinces.. .. .. 93*a*
Agricultural Instruction Act—Correspondence between Dr. C. C. James, J. C. Chapais and Provinces *re*.. .. .. .. 93*b*
American citizen—*re* killing of, and shooting another by Militia in Lake Erie, etc.. 143
Antigonish Harbour—*re* dredging at since 1912, etc.. 164
Armoury at Amherst, N.S.—*re* construction of, etc.. 89
Archives—Report of work of for year 1913.. .. .. 29*b*
Astronomer Chief—Report of for year ending March 31.. .. .. 25*a*
Atlantic Ocean Freight Rates—Documents *re* from Nova Scotia to Dept. of Trade and Commerce, since August, 1914.. 267
Auditor General's Report 3 Vols.—Pts. A to L; M to V; V to Z.. 1

B

Baker Lake, N.B.—*re* correspondence between Dept. of Marine and Fishery Overseer at.. 297
Barracks Property, Shelburne, N.S.—*re* purchase of by Government.. 273
Bannatyne, R.—*re* copies of documents respecting cancellation of entry for N. W. ¼ section of land in section 24, township 35, range 18, west of 2nd meridian.. 104

B

Belanger, Théophile—Correspondence *re* claims made by the detention of baggage, etc.. 254
Belgium—Communication from Consul General of *re* protest of against German Chancery, etc.. 233
Bluff Head, Yarmouth Co., N.S.—*re* repairs and extension of breakwater at. 186
Bonds and Securities—Detailed statement of since January 21, 1914.... .. 102
Boots—Report of Board of Officers on, as supplied to Canadian force.. 91
Boots, ankle—Showing how many firms ordered from, number of, etc.. 117
Bow River Power and Storage Investigation, seasons of 1911-12-13.. .. .. .. 25*c*
Brownlee, T. A.—*re* medical supplies purchased from by Government since July 1, 1914.. 261
Bicycles—*re* number of firms and persons from whom Government ordered since July 1, 1914.. 225

C

Canadian Pacific Railway:—
Average cost per mile from inception to date, etc., also average rental, etc. 46
Copy of agreement between Government and *re* special grant respecting irrigation system in Alberta.. 98
Re lands sold by during year ended September 30, 1914.. 106
Re Copies of O. in C. *re* required under Resolution passed in 1882, since last return.. 115
Canadian Northern Railway Co.:—
Return showing total bond issue of, and affiliated companies, cost to date of construction of lines composing system, etc.. 79
Copies of Reports of Committee of Privy Council *re* advances made to, and also G.T.P. Ry. Co., etc.... 190

C

Canada Cycle and Motor Co.—Relating to tires purchased by Government from 130
Canadian Car and Foundry Co. of Amherst, N.S.—*re* cost of preparing for military purposes, etc.. 155
Capitally convicted persons in Canada—Statistics from 1867 to Feb. 1914.. .. 53
Caraquet and Tracadie—*re* tenders received for mail service between.. .. 191
Carslake Hotel—*re* purchase of for Post Office purposes.. 218
Census of Canada, 1911—Agriculture, Volume IV.. .. .. B
Chance Harbour and Trenton, Pictou Co. N.S.—*re* mail contract.. 167
Churchill and Port Nelson, Ports of—*re* plans, reports, and soundings of.. .. 70
Civil Service List of Canada, for year, 1914.. 30
Civil Service Commission—Annual Report of for year ended August 31, 1914. 31
Coal imported into Alberta, Saskatchewan and Manitoba from U. S. in 1914—duties, etc.. 96
"Coasting Voyages"—respecting such as defined in Canada Shipping Act since 1886.. 214
Commander Lieut.—Lieutenant Commander Engineer, and Lieutenant Commander, R.C.N.V.R., Navy.. .. .. .. 43*a*
Conciliation and Investigation—Report of Registrar of Board of, year ended March 31, 1914.. .. .. 36*a*
Cotton Shirts—*re* names of firms or persons from whom purchased by Govt. since July 1, 1914.. .. .. 260*a*
Criminal Statistics for year 1913.... .. 17
Customs—Report of Department of for year ended March 31, 1914.. 11

D

Dairy and Cold Storage Commissioner—Report of for year ended March 31, 1914.. .. .. 15*a*
Dartmouth and Dean's, P. O. Branch of I.C. Ry.—Names of persons from whom lands have been bought, etc.. 251
Demarcation of Meridian of 141st Degree West Longitude—Report of Commissioners, *re*.. 97
Destructive Insect and Pest Act—Regulations under.. 92

Dismissals:—
Avard, Fredk., of I.C.R.. 82
Arbuckle, Isaac, foreman carpenter on I.C.R. at Pictou, N.S.. 244
Blais, Alex., Lévis, Que.—Customs officer at Bradore Bay.. 240
Bruce, Wiswell—Sectionman at Stellarton, N.S. on I.C.R.. 198
Brennan, Jas., fireman, I.C.R. at Stellarton, N.S.. 112
Bonnyman, Alfred H.—Postmaster at Mattatal Lake, N.S.. 204
Case, W. A.—Govt. Quarantine Service Halifax, N.S.. 80
Carter, Warren, of I.C.R.. 82
Cyr, Emile, Postmaster at St. Hermas, Co. of Two Mountains.. 275
Day, Jos., of Little Bras D'Or, N.S... 292
Dion, Ulric, Lightkeeper at St. Chas. de Caplan, Quebec.. 58
Employees—dismissed, resigned, deserted to date, etc., from Oct. 10, 1911... 85

D

Dismissals—*Continued.*
Employees—dismissed, resigned, deserted to date, etc., from Oct. 10, 1911.. 85*a*
Employees—dismissed, resigned, deserted to date, etc., from Oct. 10, 1911.. 85*b*
Employees—dismissed, resigned, deserted to date, etc., from Oct. 11, 1911.. 85*c*
Employees—dismissed, resigned, deserted to date, etc., from Oct. 10, 1911.. 85*c*
Employees—dismissed and appointed in P.E.I. since Oct. 10, 1911, to date. 86
Humphries, A. E., Inspector of Immigrations, Lethbridge, Alta.. 132
Hutchinson, Leonard, Chief Keeper, Dorchester Penitentiary.. 181
Hurlbert, T. P., Postmaster, Springdale, Yarmouth Co., N.S.. 203
Higginbotham, Edwd. N., Postmaster, Lethbridge, Alta.. 274
Ingraham, H. W., Asst. Registrar of alien enemies, Sydney, C.B.. 157
Larivière, Mr.—Dominion Lands Agent at Girouard.. 109
Mallet, Mr.—Captain of lifeboat station at Cheticamp, N.S.. 159
Marshall, Chas. H.—Postmaster at Nanton, Alta.. 211
Medicine Hat, and McLeod—dismissals and appts. in present constituencies of from 1896 to present date.. 296
McGibbon, A. R.—Customs Service, Lethbridge, Alta.. 108
McKenzie, Dr. John—M. D. to Indians of Pictou Co., N.S.. 160
Postmaster at Johnstown, Richmond Co., N.S.. 62
Postmaster at St Romuald, Que.... 105
Pipes, Brown—Customs service Lethbridge, Alta.. 108
Shelburne Co., N.S.:—
J. V. Smith of (Wood Harbour); John H. Lyons, Barrington Passage; Wm. L. Smith, Baccaro; E. D. Smith, Shag Harbour; J. A. Orechia, Woods Harbour.. 139
J. C. Morrison, Shelburne; Albert Mahaney, Churchover; W. L. Smith, Baccaro, N.S.; J. A. Arechia, Lower Wood Harbour, and J. C. Morrison, Shelburne, N.S.. .. .. 139*a*
Thomas, John, Postmaster at Hammond's Plain, N.S.. .. ..205-205*a*
Thomson, W. M., Postmaster at Fort Qu'Appelle, Sask.. 244

Dominion Police Force—Statement relating to for year 1914.. 69
Dominion Trust Company—documents *re* incorporation of, etc.. 121
Dominion Trust Company respecting certain Act passed by Legislature of B.C., relating to.. .. .. 121*a*
Dominion Lands Survey Act, O. in C. from Dec. 13, to January 15, relating to.. 128
Dominion Lands Survey Act, O. in C. from January 1914 to February 1915. 128*a*
Dominion Lands within 40 mile Ry. Belt in B.C.—O. in C. in 1914 *re*.. .. .. 128*b*
Dominion Lands—40 mile Ry. Belt B.C.—O. in C. *re* between Dec. 1913, and Jan. 15, 1915.. .. .. 128*c*
Drill Shed or armoury at Inverness, Inverness Co., N.S.—Correspondence *re*.. 125
Duck Mountain Timber Reserve—documents *re* placing of settlers on homesteads of, etc.. 259

E

Estimates required for service of Dominion, year ending March 31, 1916.. 3
Estimates Supplementary for service of Dominion, year ending March 31, 1915. 4
Estimates Further Supplementary for service of Dominion, year ending March 31, 1915.. 5
Estimates Further Supplementary for service of Dominion, year ending March 31, 1916.. .. .. 5a
Edmundston, N. B.—Clair N.B., and Green River, N.B., *re* customs money collected at for last five years 137
Elections—By, held during year 1914.. 18
Empress of Ireland—Report of Royal Commission, and evidence relating to. 21b
Engineer Officers—Regulations *re* classification of.. .. .. 43b
"Eureka," Str.—names of sailors employed on, years 1910, 1911, 1912, 1913. 78
European War—Memo. respecting work of Dept. of Militia and Defence *re* 1914-15.. 75
Exchequer Court of Canada—Rules, orders, etc., made in Feb. 1915.. .. .. 54a
Exchequer Court of Canada—Rules, orders, etc.. 54
Experimental Farm—Report of Director of, etc., for year ending March 31, 1914.. 16
Express Companies—agreements entered into between Depts. of Fisheries and Railway, etc.. 59
Express Statistics of the Dominion of Canada, year ended June 30, 1914.. 20e
Experimental Farms, Report of Director of, for year ending March 31, 1914, Vol. II.. 16
External Affairs—Report of Secy. of State for, for year ended March 31, 1914.. .. .. 29a

F

Farrington, J. F.—B. H. Smith, and H. C. Dash—*re* moneys paid to, etc.. .. 56
Ferguson, Thos. R.—Report of *re* Blood Indian Reserve, etc.. 266
Ferguson, Thos. R.—Return *re* Riding Forest Reserve, etc.. 268
Ferguson, Thos. R.—Copies O. in C.—P. C. 1109 and P. C. 1589—*re* appointment of as commissioner.. 291
Ferguson, Thos. R.—Report of *re* "Craven Dam," Walter Scott, Lieut. Governor Brown, and J. G. Turriff.. 290
Ferguson, Thos. R.—Report of Grazing Ranch No. 2422, J. G. Turriff, A. J. Adamson and J. D. McGregor.. 289
Ferguson, Thos. R.—Timber Berths 107 and 1108, W. H. Nolan, A. W. Fraser, and J. G. Turriff.. 288
Ferguson, Thos. R.—Aylwin Irrigation Tract, E. A. Robert and J. B. McGregor.. 287
Re Bulletin Co., Hon. F. Oliver and G. T. P. Railway Co.. 286
Ferguson, Thos. R.—Southern Alta. Land Co., Ltd., Grand Forks Cattle Co., J. D. McGregor, Arthur Hitchcock, etc.... 285
Ferguson, Thos. R.—Blood Indian Reserve and Frank Pedley.. 284
Ferguson, Thos. R.—Kananaskis Coal Co. Ltd., Howard Douglas, Geo. E. Hunter, Walter Garrett, etc.. 283
Ferguson, Thos. R.—Timber Berths 550½ and 528, H. Douglas, R. E. A. Leach, D. J. McDonald, etc.. 282

F

Ferguson, Thos. R.—*re* (*a*) Dominion Lands; *re* (*b*) Timber and Mineral Lands, etc.; *re* (*c*) Water Power and rights; (*d*) Indian Lands and Indian Reserves.. 281
Report of to investigate all matters *re* Dominion Lands, Indian Lands, Reserves, Water Powers, etc., since July, 1896, etc.. 281
Foster, Wm. Gore, of Dartmouth, N.S., *re* appointment of as Inspector of Indian Reserves.. 176
Fenian Raid Volunteer Bounty—*re* names, addresses, etc., to whom paid in Co. of Yarmouth, N.S.. 145
Fenian Raid Volunteer Bounty—*re* names, addresses, etc., to whom paid in Co. of Guysborough, N.S.. 146
Fenian Raid Volunteer Bounty—*re* names, addresses, etc., to whom paid in Co. of Antigonish, N.S.. 150
Fenian Raid Volunteer Bounty—*re* names, addresses, etc., to whom paid in Co. of Pictou, N.S.. 162
Fenian Raid Volunteer Bounty—*re* names, addresses, etc., to whom paid in Co. of Pictou, N.S.. .. .. 162a
Fenian Raid Volunteer Bounty—*re* names, addresses, etc., to whom paid in Co. of Inverness, N.S.. 226
Ferguson, G. Howard—*re* Investigations held by; also fees paid to since Oct., 1911.. 83
Ferry service, between Halifax and Dartmouth, N.S.—*re* establishment of.. .. 215
Ferguson, Thos. R.—Report of *re* Indian Lands, Jas. A. Smart, F. Pedley and W. T. White.. 266
Fisher, Ward, Shelburne, N.S.—Fishery Inspector—*re* amounts of money paid to years 1913, 1913.. 144
Fisheries in tidal waters—*re* proposed transfer of from Provincial to Federal control.. 228
Fisheries in Quebec Province—*re* control of—also List of licenses granted by either Govts. for present year.. 239
Flannel shirts—*re* number of firms or persons from whom Govt. purchased same since July 1, 1914.. 260
Flynn, Wm.—*re* Instructions sent to regarding investigations *re* employees of Marine and Fisheries in Bonaventure Co., Que., etc.. 57
Food-stuffs—exportations to foreign countries other than United Kingdom.. .. 120
Forest Reserves and Park Act—Orders in Council *re* (between Dec. 1913 and Jan. 14).. 127
Forest Reserves and Park Act—Orders in Council *re* between May, 1914 and July, 1914.. .. .. 127a
Forage Caps—*re* number of firms, etc., from whom Govt. ordered same since July 1, 1914.. 237
Freight rates charged years 1912-13 on wheat by C.P. Ry.'s, lines, Allan lines, and Canadian Northern Ry.'s lines from Canadian Ports to those of United Kingdom.. 81
Fresh Fish *re* transportation of between ports in N.S. and United States.. .. 153

G

Geographic Board Report of for year 1914 25d
Georgian Bay Canal—respecting petitions, documents, etc., *re* construction of from Sept. 21, 1911.. .. .. 72a
Geological Survey—Report of for year 1913.. 26
Georgian Bay Canal—Return *re* proposals to Government for construction of, etc.. 72
Gingras, J. E., *re* appointment of as postmaster St. Romuald, Que.. 209
Governor General's Warrants, etc., issued since last session of Parliament, 1914-1915.. 64
Government offices—*re* answer in Hansard page 161, respecting furnishing of same.. 193
Grain—*re* results of all grain per grade in terminal elevators in Port Arthur and Fort William in 1912, 1913, 1914.. 235
Grand Etang—*re* conduct of Postmaster at since appointment at to date.. .. 210
Green Harbour and vicinity—*re* regulation of fish traps in.. 213
Gutelius, F. P.—*re* naturalization of, etc. 141

H

Heard, David, and Sons—*re* mail contract with between Whitby and G. T. Ry. Station.. 189
Highwater, Que.—*re* number of, salaries, etc., employees at customs port of.. 179
Homestead lands in Saskatchewan—*re* fractional areas of sold in 1914..... 192
Hopper, Newton—*re* suspension of as Conductor on I.C.R., etc.. 197
Horses—Valcartier Camp—*re* names of parties purchasing same—prices paid, etc.. 272
Hudson Bay or James Bay—*re* number of ships chartered by Govt. to go there since Oct. 1911.. 148
Hudson Bay or James Bay—*re* number of ships employed by Railway Dept., amt. expended, etc.. .. .. 148a
Hydrographic Survey—British Columbia. Report of for year 1913.. .. .. 25f

I

Intercolonial Railway:—
Tenders *re* purchase of cars for in years 1912-1913.. 45
Documents *re* purchase of cars for in years since July 1, 1914.. .. .. .. 45a
Freight revenue for certain stations on for years 1913-1914.. 47
Names of Staff in several Dépts. at Moncton—Salaries, etc.. 48
Return asking if official statement *re* wages to be paid to officials absent on active service, etc.. 113
Return *re* the supplying of ice for same at Port Mulgrave, N.S.. 118
Return *re* sale of hay on lands belonging to in Parish of Bic, Rimouski Co.. 196
Return *re* Inward tonnage freight, and outward do, January, 1915.. 199

I

Imperial Conference — Correspondence since January 1, 1915 as to calling of *re* Naval Defence.. 149
Indian Affairs—Report of Department of for year ending March 31, 1914.. .. 27
Indian Reserve, Restigouche, Que.—Documents, etc., *re*.. 77
Insurance—Report of Superintendent of for year 1914.. 8
Insurance—Abstract of statement of for year ended December 31, 1914.. 9
Inverness Co., N.S., *re* amounts expended by Dept. of Public Works in, from 1896 to 1915.. 187
Inland Revenues:—
Reports, Returns and Statistics of for year ended March 31, 1915.
Part I.—Excise.. 12
Part II.—Inspection of Weights and Measures, Gas and Electricity.. .. 13
Part III.—Adulteration of Food.. .. 14
International Purity Congress—Report of Government Delegates attending.. .. 142
Interior—Annual Report of Department of year ending March 31, 1914, Vol. I. 25
Interior, *re* appointments to Dept. of, in Constituencies of Medicine Hat and McLeod—names of, etc.. 241
Irrigation Act—O. in C. passed between Dec. 1913, and January, 1915, *re*.. .. 129
Isle Perrot—*re* Construction of bridge to connect with mainland at Vaudreuil.. 182
Island of Montreal—*re* Construction of bridge between and mainland at Vaudreuil.. .. .. 182a

J

Jordan Breakwater, Shelburne Co., N.S. —*re* repairs, etc., to same.. 185
Judges—*re* appointment of since February, 1913.. 51
Justice—Report of Minister of *re* Penitentiaries, etc.. 34

K

Kit-bags, *re* purchase of by Govt. since July 31, 1914.. 262

L

Labour, Report of Department of for year ended March 31, 1914.. 36
Lakes of Two Mountains, St. Francis and St. Louis—*re* rescinding of prohibition of net fishing in, 1915.. 231
Lethbridge—*re* supplies, etc., for field battery being trained at, etc.. 163
Librarians of Parliament—Joint Report of.. 40
Liquors spirituous, cigars, cigarettes and tobacco—quantity of taken out of bond in Aug, 1914 at Ports in Dominion.. 236

L

List of Shipping for Canada up to December 31, 1914.. 22

Loans—*re* correspondence on subject of —from Imperial Govt. to Canadian Govt... 156

Lobsters—*re* licenses to pack issued by Govt., issued between Jan. 1, 1912, and Jan. 2, 1913.. 280

Lower Burlington, N.S.—*re* construction of wharf at.. 184

Lower Wood Harbour, N.S.—*re* proposed wharf at.. 220

Lumber Supply to Militia Dept. *re* training Camps at Medicine Hat and Calgary.. 270

Lynch, Margaret—*re* expropriation of lands belonging to in Fredericton, N. B., by I.C.R.. 200

M

Mails:—

Carrying of between Grand River Falls and Grand River, N.S.. 61

Relating to contract between Armagh Station and Mailloux, Bellechasse Co. 133

Relating to documents connected with tenders for service between Low Point and Creignish Station, 1913-14. 134

Relating to contract between New Ross and Vaughan's P.O., Waterville, N.S. 135

Relating to contract between Mabou and Whycocomagh, N.S.. 136

Relating to contract between Chance Harbour and Trenton, N.S.. 167

Relating to contract awarding of at Maria Capes, Bonaventure Co., in 1914.. 168

Relating to contract for rural delivery in Township of Dundee, Huntingdon, Que.. 169

Relating to proposed service between Lower South River and South Side Harbour, N.S.. 170

Relating to carriage of between Canso and Guysborough, documents *re* since 1914.. 171

Relating to route, proposed change in from Inverness Ry. Station to Margaree Harbour, N.S.. 173

Relating to rural route from River John to Hedgeville, Pictou Co., N.S. 232

Relating to contract for the carrying of between Guysborough and Erinville, N.S.. 243

Relating to contract for the Antigonish-Sherbrooke mail service, etc.. 245

Relating to proposed rural delivery between Pictou and Saltsprings, N.S.. 246

Relating to proposed rural service from Bridgetown to Granville Ferry, Annapolis Co., N.S.. 247

Relating to names, etc., of rural carriers in Counties of Chicoutimi and Saguenay and carriers, etc., for St. Prime and St. Louis de Metabetchouan.. 276

Marine and Fisheries—Annual Report of for 1913-1914—Marine.. 21

M

Marine and Fisheries—Annual Report of for 1913-1914—Fisheries.. 39

Marine Biology—1911-1914—Part I.. .. 39*b*

Marine and Fisheries—Supplement to for year 1913-1914, "Steamboat Inspection Report".. 23

Margaree Lobster Hatchery—correspondence *re* collecting of spawn for, etc.. 95

Massonville, Que., *re* number of, salary, names of officials at Customs port of. 178

Mate in R.C. Navy—establishment of rank in.. 43

Marois, G. A.—*re* appointment of to Customs office at Quebec.. 209

Medicine Hat, City of—*re* money spent for Government relief—to whom given, etc.. 138

Militia Council, Report of for year ended March 31, 1914.. 35

Militia General Orders promulgated to period between Nov. 25, 1913, and Dec. 24, 1914.. 73

Medical Supplies purchased from T. A. Brownlee, Ottawa City.. 261

Mines Branch—Report of for calendar year 1913.. .. .. 26*a*

Miscellaneous Unforeseen Expenses—Statement of from August, 1914, to February, 1915.. 65

Moncton, N.B.—*re* names, salaries, etc., of employees at—also names of those superannuated, etc.. 250

Montgomery, Geo. A., late—*re* value, etc., of estate of, etc.. 52

Motor-trucks—*re* number sent with first contingent—from whom purchased, etc. 119

Motor Cycles—number of firms or persons from whom Govt. has ordered same, since July 1, 1914.. 227

Mc

McKeown, A. H.—*re* appointment of to Immigration service at Lethbridge, Alta.. 131

McDonald, W. B—*re* medical supplies, and other goods purchased from by Govt. since Aug. 1, 1914.. 265

N

Naval Service—Report of Department of for year ending March 31, 1914.. 38

Naval Service—Orders in Council *re* Rates of pay, separation alloyances, etc.. 44

New Brunswick and P. E. I. Railway—Correspondence *re* purchase of.. 202

Newspapers in Canada—List of in which advertisements have been inserted by the Govt. between Oct. 10, 1911, and present date.. 84

Newspapers in Canada—List of in which advertisements have been inserted by Govt. between Oct. 10, 1906, up to Oct. 1911.. .. .. 84*a*

N

Nickel—Correspondence *re* control of exportation of, etc.. 74

North Sydney—Port of—*re* names, tonnage, registry, etc., of all foreign fishing vessels, in 1913.. 50

O

Officers commissioned to 17th N. S. Regt. at Valcartier before sailing for England.. 151

Oliver equipment—Number of firms and individuals ordered from since July 1, 1914.. 175

Ottawa Improvement Commission—Receipts and expenditures of to March 31, 1914.. 67

Overseas Contingents—purchase respecting—also Army contracts under O. in C., *re*.. 123

P

Parry Island *re* advertisements and documents connected with purchasing, etc. 99

Paradis, Télesphore, of Lévis, correspondence, etc., *re* claim of against I.C.R.. 277

Pensionary Assistance—*re* providing of for disabled officers and men on active service.. 206

Pelletier, Hon. and W. B. Nantel, Hon. letters of resignation of, etc.. 90

Pictou-Mulgrave-Cheticamp Steamship route—Correspondence, etc., *re*.. 76

Phinney's Cove and Young's Cove, Annapolis Co., N.S., *re* breakwater at.. 219

Port Daniel West—*re* Lobster hatchery at season of 1914.. 212

Portneuf, Que.—*re* amount of money expended by Govt. from July, 1896 to 1911.. 140

Post Offices:—
Relating to site of at St. Lazare Village, Co. of Bellechasse, Que.. .. 63
Post Offices in Nova Scotia *re* amount of money sent through in past five years, etc.. 107

Post Offices in Counties of N.S.—*re* rent allowances, etc.. 60

Postmaster General—Report of for year ended March 31, 1914.. 24

Post Offices—Total number, salaries, etc., of employees at—Montreal, Toronto, Winnipeg, Halifax, Quebec, St. John, N.B., and Vancouver.. 172

Port Hawkesbury—*re* purchase of a site for public building at.. 222

Prince Edward Island Ry.—Names, positions, and salaries of appointees to, from 1912 to 1914.. 49

Prince Edward Island Ry.—Names, addresses, etc., salaries of appointees from 1911, to present date.. .. .. .. 49*a*

Prisoners of War in Canada—Number of since war, names of places of detention, etc.. 111

P

Prisoners of War in Canada—Number of, cost of each detention camp, etc.. .. 111*a*

Prospect, Halifax Co., N.S.—*re* construction of extension to breakwater at.. .. 221

Public Accounts for year ended March 31, 1914.. 2

Public Works—Report of Minister of for year ended March 31, 1914.. 19

Public Printing and Stationery—Report of for year ended March 31, 1914.... 32

Q

Quebec Board of Trade—Copies of all papers between, and Dept. of Rys and Canals *re* trains in section of N.T. Ry., between Cochrane and Quebec City.. 114

Quebec Oriental Ry. and Atlantic, Quebec and Western Ry.—*re* tariff on flour shipments.. 203

R

Radiotelegraph Regulation 106, etc.. .. 42

Radiotelegraph Regulation amendment to Nos. 103 and 104.. 42

Regiment 17th of N.S.—alleged ill treatment of at Salisbury Plain.. 154

Refund—statement of *re* Customs Duties, for year ended March 31, 1914.. .. 126

Remount Commissioners—*re* appointment of—general instructions, etc.. 116

Regina City of—*re* properties acquired by Govt. in since Sept. 21, 1911.. .. 183

Regina City—*re* properties acquired by Govt. since Sept. 21, 1911.. 217

Royal Northwest Mounted Police—Report of for year 1914.. 28

Royal Society of Canada—Statement of affairs of up to April 30, 1914.. 68

Railways and Canals—Report of Dept. of for period from April 1, 1913, to March 31, 1914.. 20

Railways, Canal Statistics, for season of 1914.. .. .. 20*a*

Railways Statistics of Canada, year ended June 30, 1914.. .. .. 20*b*

Railway Commissioners—With Report of Board of, for year ending March 31, 1914.. .. .. 20*c*

Railways and Canals—*re* tenders for ice for I.C.R. at Port Mulgrave, N.S.... 118

Railways proposed line of from Orangedale to Cheticamp, N.S.. 248

Railway Offices at Moncton, N.B—*re* names of, and salaries paid to employees at.. 250

Railways—relating to construction of in Co. of Guysborough, N.S.. 253

S

St. Lawrence River—Report of Commissioners to investigate water levels of, etc.. 166

S

St. John Valley Railway—Correspondence *re* operation of by I.C.R. since July, 1914.. 257

Stream Measurements for calendar year, 1914.. .. .. 25*c*

Sackville, N.B—*re* roadway to Public wharf at, and spur line from I.C.R. to said wharf.. 258

Saddles—*re* number of ordered—names of firms, individuals furnishing same.. 207

Sandford, Yarmouth Co.—*re* breakwater at and work on same during 1914.. .. 188

Salmon Hatchery—North Margaree—operation of, etc.. 88

Salmon Pond—*re* removal of from "Flat Lands" to New Mills, N.B.. 279

Schroder, Udo F.—*re* application for grazing lease township 40-41, R. 7, West of 3rd Meridian, Sask.. 161

Scoles, C. R., New Carlisle, Que.—*re* payment of balance of subsidy to.. 201

Seager, Chas.—Commissioner investigating charges against public officials—reports of, etc.. 87

Secretary of State—Report of the, for year ended March 31, 1914.. 29

Seed Grain distribution—*re* applications from Prairie Provinces for same.. .. 147

Separation allowances *re* soldiers of first contingent, etc.. 124

Separation allowances *re* soldiers asking for permission to marry and placing of wives on list.. .. .. 124*a*

Service shirts—*re* number of firms or persons from whom Govt. bought same since July 1, 1914.. .. .. 260*b*

Shareholders in chartered banks—List of as on December 31, 1914.. 6

Shellfish Fishery Commission of 1913—Correspondence of between Dept. of Marine and Fisheries.. 94

Ships, British—Copy of O. in C. restricting transfer of, etc.. 165

Shippegan Gully, Co. of Gloucester, N. B.—*re* pay sheet in connection with repairs to same, Oct. 1914.. 224

Shovels—*re* reports respecting purchase of 25,000, per O. in C. P. 2302, Sept. 4, also further purchases of same.. 271

Smith, B. F.—*re* cutting of lumber by on Tobique Indian Reserve, since March 12, 1914.. 177

Southampton Railway Co.—Report of Royal Commission *re*, etc.. 41

Stevenson, S. J. and Waverley Pharmacy—*re* medical supplies purchased from by Govt. since Aug. 1, 1914.. 263

Steamers *John L. Cann* and *Westport III.* *re* rewards to officers and crews of, etc. 239

Storm Signals at Shippegan, N.B.—*re* transfer of, etc.. 152

Submarines—*re* purchase of by Canadian Govt. by O. in C. dated August 7, 1914, etc.. 158

Submarines Supplementary purchase of by Canadian Govt. by O. in C. dated August 7, 1914, etc.. .. .. 158*a*

S

Submarines—Further purchase of by Canadian Govt. by O. in C. dated Aug. 7, 1914, etc.. .. .. 158*b*

Superannuation and Retiring Allowances—Year ended 31st December, 1914.. 66

Subsidies, Railway, paid in Co. of Inverness, N.S. to date.. 194

Sweetman, J. Herbert, Customs officer, Port Daniel, Que., *re* charges against etc.. 242

T

Telephone Statistics for year ended June 30, 1914.. .. .. 20*d*

Telegraph Statistics for year ended June 30, 1914.. .. .. 20*f*

Three Rivers:—

Number of employees and salaries paid to at Post Office on Sept. 21, 1911; number of employees and salaries paid to at Post Offive a tpresent date; Customs Dept. at, number of employees on Sept. 21, 1911, and at present date; Inland Revenue Dept. at employees on Sept. 21, 1911, and at present date; Public Works on the St. Maurice, Co. of Champlain, number of employees on in 1911-12; Public Works on the St. Maurice, Co. of Champlain, number of employees in since that date; Employees on such work dismissed in Nov. 1914, and Jan. 1915—Wildé Lavallé, Pierre Thivièrge, Joseph Paquin, sr., Jos. Paquin, jr., and Athanase Gelinas, Clerks, etc.. 278

Titles, numbers, and cost of all books and pamphlets issued by King's Printer to March 31, 1914.. 71

Topographical Surveys Branch for year 1912-13.. .. .. 25*b*

Transcontinental Railway—Report of Commissioners of for year ended March 31, 1914.. 37

Transcontinental Railway—Interim Report of Commissioners of for nine months ended Dec. 31, 1914.. .. .. 37*a*

Transcontinental Railway—*re* freight rates of N. B. portion of, and removal of Y at Wapski, Victoria, N.B.. 256

Trade and Commerce:—

Part I—Canadian Trade (Imports and Exports).. 10

Part II—Canadian Trade—.. .. .. France.. .. .. Germany.. .. .. United States.. .. .. United Kingdom.. .. .. 10*a*

Part III—Canadian Trade, except—France.. .. .. Germany.. .. .. United Kingdom.. .. .. United States.. .. .. 10*b*

Part IV—Miscellaneous Information.. 10*c*

Part V—Report of Board of Grain Commissioners for Canada.. .. .. 10*d*

T

Trade and Commerce—*Continued.*
Part VI—Subsidized Steamships Service.. .. .. 10*e*
Part VII—Trade of Foreign Countries —Treaties and Conventions.. .. .. 10*f*

Trade Unions—Annual Return respecting.. 101
Trawlers, Steam—*re* clearing of from Ports on Atlantic Seaboard of Canada. 269
Transports hired conveyances of troops and material to England—names, owners, etc.. 109
Transport Wagons purchased for second and third contingents—number and from whom, etc.. 110
Trois Pistoles, Pulp and Lumber Co.—*re* burning of buildings of, on I.C.R.... 249
Trust Companies—*re* names of complying with Trust Companies Act of 1914.... 293

U

Unclaimed Balances; Dividends unpaid, etc., prior to Dec. 31, 1913.. 7
Underwear—*re* number of suits of—names and members of firms or persons from whom purchased by Govt. since July 1, 1914.. 264
Uniforms, Soldiers—*re* number of firms, individuals ordered from since July 1, 1914.. 174

V

Vale Railway in Co. of Pictou, N.S.—*re* purchase or lease of since 1911.. .. 195
Valcartier Camp—*re* lands taken possession of by Govt., etc.. 295
Valcartier Camp—Horses at—names of parties purchasing same and prices paid, etc.. 272
Veterinary Director General—Report of for year ended March 31, 1914.. .. 15*b*

W

War Appropriation Act—Correspondence between Auditor General and Govt.—*re* expenditures under.. 122
War Appropriation Act—Correspondence between Auditor General and Govt.—*re* expenditures under.. .. .. 122*a*
Wakeham, Dr. Wm.—*re* report of respecting losses in storms in Baie Chaleur, etc., June, 1914.. 238
Winter Shirts—*re* number of firms, persons from whom Govt. bought same since July 1, 1914.. .. .. 260*c*
Wisewell, Bruce—*re* dismissal of, etc.. 198
Wharves in Co. of Shelburne, N.S.—East Green Harbour and Gunning Cove.... 216
Wheat—*re* copies of documents respecting removal of customs duties on, entering Canada, etc.. 103
Wheat, oats and barley—*re* quantity purchased by Govt. in 1914, for seed distribution in West.. 234
Windsor Branch, I.C.R.—*re* leasing or transfer of to C.P.R.. 252
Wright, Pontiac and Labelle, Counties—of—*re* amounts of money expended since 1911.. 223

Y

Yukon Territory—Ordinances of for year 1914.. 55

See also Alphabetical List, Page 1.

LIST OF SESSIONAL PAPERS

Arranged in Numerical Order, with their titles at full length; the dates when Ordered and when presented to the Houses of Parliament: the name of the Senator or Member who moved for each Sessional Paper, and whether it is ordered to be Printed or Not Printed.

CONTENTS OF VOLUME D.

Fifth Census of Canada, 1911,—Agriculture, Volume IV. Presented by Hon. Mr. Foster, February 8, 1915.. .. ..*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 1.

(This volume is bound in three parts).

1. Report of the Auditor General for the year ended 31st March, 1914. Volume I, Parts A, B and A to L; Volume II, Parts M to U; Volume III, Parts V to Z. Presented by Hon. Mr. White, February 9, 1915.. .. .. ..*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 2.

2. The Public Accounts of Canada, for the fiscal year ended 31st March, 1914. Presented by Hon. Mr. White, February 9, 1915 .. .. ..*Printed for distribution and sessional papers.*

3. Estimates of sums required for the service of the Dominion for the year ending on 31st March, 1916. Presented by Hon. Mr. White, February 8, 1915.
Printed for distribution and sessional papers.

4. Supplementary Estimates of sums required for the service of the Dominion for the year ending on the 31st March, 1915. Presented by Hon. Mr. White, March 9, 1915.
Printed for distribution and sessional papers.

5. Further Supplementary Estimates of sums required for the service of the Dominion for the year ending on the 31st March, 1915. Presented by Hon. Mr. White, March 27, 1915.
Printed for distribution and sessional papers.

5a. Further Supplementary Estimates for year ending 31st March, 1916. Presented by Hon. Mr. White, March 31, 1915.. .. ..*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 3.

6. List of Shareholders in the Chartered Banks of the Dominion of Canada as on 31st December, 1914. Presented by Hon. Mr. White, February 9, 1915.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 4.

7. Report on certified cheques, dividends, unclaimed balances and drafts or bills of exchange remaining unpaid in Chartered Banks of the Dominion of Canada, for five years and upwards prior to 31st December, 1913. Presented by Hon. Mr. White, April 10, 1915.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 5.

(This volume is bound in two parts).

8. Report of Superintendent of Insurance for year 1914. Presented by Hon. Mr. White, 1915.
Printed for distribution and sessional papers.

9. Abstract of Statement of Insurance Companies in Canada for year ended 31st December, 1914. Presented by Hon. Mr. White, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 6.

10. Report of the Department of Trade and Commerce for the fiscal year ended 31st March, 1914: Part I.—Canadian Trade. Presented by Sir George Foster, 8th February, 1915.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 7.

10a. Report of the Department of Trade and Commerce for the fiscal year ended 31st March, 1914: Part II.—Canadian Trade with (1) France, (2) Germany, (3) United Kingdom, and (4) United States. Presented by Sir George Foster, 8th February, 1915.
Printed for distribution and sessional papers.

10b. Report of the Department of Trade and Commerce for the fiscal year ended 31st March, 1914: Part III.—Canadian Trade with foreign countries (except France, Germany, the United Kingdom, and United States.) Presented by Sir George Foster, 8th February, 1915.. .. ..*Printed for distribution and sessional papers.*

10c. Report of the Department of Trade and Commerce, for the fiscal year ended 31st March, 1914, (Part IV, Miscellaneous Information.) Presented by Sir George Foster, March 27, 1915.. .. ..*Printed for distribution and sessional papers.*

10d. Report of the Board of Grain Commissioners for Canada. Presented by Sir George Foster, 1914... .. ..*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 8.

10e. Report of the Department of Trade and Commerce for the fiscal year ending 31st March, 1914. Part VI.—Subsidized Steamship Services, with statistics showing steamship traffic to 31st December, 1914, and Estimates for the fiscal year 1915-16. Presented by Sir George Foster, 1915.. .. ..*Printed for distribution and sessional papers.*

10f. Report of Trade and Commerce for fiscal year ended 31st March, 1914. (Part VII.—Trade of Foreign Countries, Treaties and Conventions.) Presented by Sir George Foster, 1915... .. ..*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 9.

11. Report of the Department of Customs for the year ended 31st March, 1914. Presented by Hon. Mr. Reid, February 11, 1915.. .. *Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 10.

12, 13, 14. Reports, Returns and Statistics of the Inland Revenues of the Dominion of Canada, for the year ended 31st March, 1914 (Part I.—Excise). (Part II.—Inspection of Weights and Measures, Gas and Electricity). (Part III.—Adulteration of Food). Presented by Hon. Mr. Blondin, March 1, 1915.
Printed for distribution and sessional papers.

15. Report of the Minister of Agriculture for the Dominion of Canada, for the year ended 31st March, 1914. Presented by Hon. Mr. Burrell, February 8, 1915.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 11.

(This volume is bound in two parts).

15a. Report of the Dairy and Cold Storage Commissioner for the fiscal year ended 31st March, 1914. (Dairying, Fruit, Extension of Markets and Cold Storage). Presented by Hon. Mr. Burrell, 1915.. .. ..*Printed for distribution and sessional papers.*

15b. Report of the Veterinary Director General for the year ending 31st March, 1915. Presented by Hon. Mr. Burrell, 1915.. .. ..*Printed for distribution and sessional papers.*

16. Report of the Director and Officers of the Experimental Farms for the years ending 31st March, 1914. Presented by Hon. Mr. Burrell, March 1, 1915.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 12.

17. Criminal Statistics for the year ended 30th September, 1913. (Appendix to the Report of the Minister of Trade and Commerce for the year 1913.) Presented by Sir George Foster, 1915.. .. ..*Printed for distribution and sessional papers.*

18. Return of By-elections for the House of Commons of Canada, held during the year 1914. Presented by Hon. Mr. Speaker, March 12, 1915.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 13.

19. Report of the Minister of Public Works on the works under his control for the fiscal year ended 31st March, 1914, Volume I. Presented by Hon. Mr. Rogers, February 8, 1915.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 14.

20. Annual Report of the Department of Railways and Canals, for the fiscal period from 1st April, 1913, to 31st March, 1914. Presented by Hon. Mr. Cochrane, March 12.
Printed for distribution and sessional papers.

20*a*. Canal Statistics for the season of navigation, 1914. Presented by Hon. Mr. Cochrane, 9th April, 1915.. .. ..*Printed for distribution and sessional papers.*

20*b*. Railway Statistics of the Dominion of Canada, for the year ended 30th June, 1914. Presented by Hon. Mr. Cochrane, March 12, 1915.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 15.

20*c*. Ninth Report of the Board of Railway Commissioners for Canada, for the year ending 31st March, 1914. Presented by Hon. Mr. Cochrane, February 8, 1915.
Printed for distribution and sessional papers.

20*d*. Telephone Statistics of the Dominion of Canada, for the year ended 30th June, 1914. Presented by Hon. Mr. Cochrane, March 17, 1915.
Printed for distribution and sessional papers.

20*e*. Express Statistics of the Dominion of Canada for year ended 30th June, 1914. Presented by Hon. Mr. Cochrane, 1915.., ...*Printed for distribution nad sessional papers.*

20*f*. Telegraph Statistics of the Dominion of Canada, for the year ended 30th June, 1914. Presented by Hon. Mr. Cochrane, March 17, 1915.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 16.

21. Forty-seventh Annual Report of the Department of Marine and Fisheries, for the year 1913-1914—Marine. Presented by Hon. Mr. Hazen, February 8, 1915.
Printed for distribution and sessional papers.

21*b*. Report and evidence in connection with the Royal Commission appointed to investigate the disaster of the *Empress of Ireland*. Presented by Hon. Mr. Hazen, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 17.

22. List of Shipping issued by the Department of Marine and Fisheries, being a list of vessels on the registry books of the Dominion of Canada on 31st December, 1914. Presented by Hon. Mr. Hazen, 1915... .. ..*Printed for distribution and sessional papers.*

23. Supplement to the Forty-seventh Annual Report of the Department of Marine and Fisheries for the fiscal year 1913-14—Steamboat Inspection Report. Presented by Hon. Mr. Hazen, March 3, 1915 .. ..*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 18.

24. Report of the Postmaster General for the year ended 31st March, 1914. Presented by Hon. Mr. Casgrain, February 8, 1915.. .. .. ..*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 19.

(This volume is bound in two parts).

25. Annual Report of the Department of the Interior, for the fiscal year ending 31st March, 1914.—Volume I. Presented by Hon. Mr. Roche, March 8, 1915.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 20.

25*a*. Report of Chief Astronomer, Department of the Interior for year ending 31st March, 1911. Presented by Hon. Mr. Roche, 1915.. .. .. ..*Printed for distribution and sessional papers.*

25*b*. Annual Report of the Topographical Surveys Branch of the Department of the Interior, 1912-13. Presented by Hon. Mr. Roche, 1914.
Printed for distribution and sessional papers.

25*c*. Report of progress of stream measurements for calendar year of 1914. Presented by Hon. Mr. Roche, 1914.. .. ..*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 21.

25*d*. Thirteenth Report of the Geographic Board of Canada for the year ending 30th June, 1914. Presented by Hon. Mr. Roche, 1915.
Printed for distribution and sessional papers.

25*e*. Report on Bow River Water Power and Storage Investigations, seasons 1911-1912-1913. Presented by Hon. Mr. Burrell, 1915.. ..*Printed for distribution and sessional papers.*

25*f*. Report of the British Columbia Hydrographic Survey for the calendar year 1913. Presented by Hon. Mr. Burrell, 1915.. ...*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 22.

26. Summary Report of the Geological Survey, Department of Mines, for the calendar year 1913. Presented, 1915.. .. ..*Printed for distribution and sessional papers.*

26*a*. Summary Report of the Mines Branch for the calendar year 1913. Presented, 1914.
Printed for distribution and sessional papers

CONTENTS OF VOLUME 23.

27. Report of the Department of Indian Affairs for the year ended 31st March, 1914. Presented by Hon. Mr. Roche, 11th February, 1915.
Printed for distribution and sessional papers.

28. Report of the Royal Northwest Mounted Police, 1914. Presented by Hon. Sir Robert Borden, 8th February, 1915 .. ..*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 24.

29. Report of the Secretary of State of Canada for the year ended 31st March, 1914. Presented by Hon. Mr. Coderre, 9th February, 1915.
Printed for distribution and sessional papers.

29*b*. Report of the work of the Public Archives for the year 1913. Presented, 1915.
Printed for distribution and sessional papers.

30. The Civil Service List of Canada, 1914. Presented by Hon. Mr. Coderre, 9th February, 1915.. .. ..*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 25.

31. Sixth Annual Report of the Civil Service Commission of Canada for the year ended 31st August, 1914. Presented by Hon. Mr. Coderre, 19th March, 1915.
Printed for distribution and sessional papers.

32. Annual Report of the Department of Public Printing and Stationery for the year ended 31st March, 1914. Presented by Hon. Mr. Coderre, 6th April, 1915
Printed for distribution and sessional papers.

33. Report of the Secretary of State for External Affairs for the year ended 31st March, 1914. Presented by Sir Robert Borden, 18th February, 1915.
Printed for distribution and sessional papers.

34. Report of the Minister of Justice as to Penetentiaries of Canada, for the fiscal year ended 31st March, 1914. Presented, 1915.. .. ..*Printed for distribution and sessional papers.*

35. Report of the Militia Council for the Dominion of Canada, for the fiscal year ending 31st March, 1914. Presented by Hon. Mr. Hughes, 10th February, 1915.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 26.

36. Report of the Department of Labour for the fiscal year ending 31st March, 1914. Presented by Hon. Mr. Crothers, 8th February, 1915.
Printed for distribution and sessional papers.

36a. Seventh Report of the Registrar of Boards of Conciliation and Investigation of the proceedings under "The Industrial Disputes Investigation Act, 1907," for the fiscal year ending 31st March, 1914. Presented by Hon. Mr. Crothers, 8th February, 1915.
Printed for distribution and sessional papers.

37. Tenth Annual Report of the Commissioners of the Transcontinental Railway, for the year ended 31st March, 1914. Presented by Hon. Mr. Cochrane, 8th February, 1915.
Printed for distribution and sessional papers.

37a. Interim Report of the Commissioners of the Transcontinental Railway, for the nine months ended 31st December, 1914. Presented by Hon. Mr. Cochrane, 15th February, 1915.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

45. Return to an Order of the House of the 20th April, 1914, for a copy of all letters, papers, tenders and other documents in regard to the purchase of any cars for the Intercolonial Railway during the years 1912 and 1913. Presented 9th February, 1915.—*Mr. Macdonald*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

of convicts; dates of conviction; crime of which convicted; sentences passed; by whom sentenced; sentences commuted, and if so, to what. 3. For a return showing all persons in Canada, and each province, convicted during the above mentioned period of murder whose sentences have been mitigated, or who have received a free pardon, together with a statement of the offences of which they were severally convicted, with the name of convicts; dates of conviction; nature of offence; sentences; and extent of mitigation of sentences and dates. 4. For a return of instances, during the above mentioned period, in which appeal has been made on behalf of the persons convicted of capital offences to His Excellency, the Governor in Council, for the exercise of the Royal Prerogative of pardon, or mitigation of sentences, with the name of convicts; dates of conviction and place; crime of which convicted; sentences; dates of appeal; and the result. Presented 9th February, 1915.—*Mr. Wilson (Laval)*.. ..*Not printed.*

54. General Rules and Orders of the Exchequer Court of Canada made, respectively, on the 23rd September, 1914, and the 18th June, 1914. Presented by Hon. Mr. Coderre, 9th February, 1915.. .. ..*Not printed.*

54*a*. General Rules and Orders of the Exchequer Court of Canada made on the 15th February, 1915. Presented by Hon. Mr. Coderre, 16th March, 1915... .. ..*Not printed.*

55. Ordinances of the Yukon Territory passed by the Yukon Council in the year 1914. Presented by Hon. Mr. Coderre, 9th February, 1915... .. ..*Not printed.*

56. Return to an Order of the House of the 18th May, 1914, for a return showing the details of moneys paid to J. F. Farrington, $248.25; B. H. Smith, $469.50, and H. C. Dash, $182.40, as set forth in *Honsard* of this session, page 3071. Presented 9th February, 1915.—*Mr. McLean (Halifax)*... .. ..*Not printed.*

57. Return to an Order of the House of the 16th March, 1914, for a copy of instruction sent to Mr. Wm. Flynn, advocate, to hold investigations into charges made against employees of the Department of Marine and Fisheries in Bonaventure County, and reports made by him in such investigations. Presented 9th February, 1915.—*Mr. Marcil (Bonaventure)*.. .. ..*Not printed.*

58. Return to an Order of the House of the 27th April, 1914, for a copy of all documents bearing upon the application made to the Department of Marine and Fisheries for the dismissal of Ulric Dion, lightkeeper at St. Charles de Caplan, Quebec, and the appointment of Omer Arsenault in his place, and on the action taken by the Department in that connection. Presented 9th February, 1915.—*Mr. Marcil (Bonaventure)*.
Not printed.

59. Return to an Order of the House of the 9th February, 1914, for a copy of all agreements made and entered into between the Department of Marine and Fisheries or the Government and Railway and Express Companies, including the Intercolonial Railway, relating to the transportation of fresh fish by fast freight or express, since the year 1906; also a copy of all guarantees given to railway and express companies by the Government or any Department thereof, relating to such transportation, together with a statement of all disbursements made by the Department of Marine and Fisheries each year under the terms of such agreements or guarantees, distinguishing between disbursements made on account of fast freight and disbursements made on account of express shipments; also the number of refrigerator cars, subject to guarantee, by Department of Marine and Fisheries, forwarded by fast freight from Mulgrave or Halifax to Montreal, each calendar year since 1906, and the number of tons of freight carried by such cars each year. Also the number of refrigerator express cars forwarded from said points, Mulgrave and Halifax to Montreal, up to December 31, 1913, under the terms of an agreement made since 1911, between the Department of Marine and Fisheries and the railway or express companies or both. Also the number of tons of fresh fish carried by express companies, prior to December 31, 1913, under the last-mentioned agreement; and the amount paid up to December 31, 1913, by the Department of Marine and Fisheries, under the last mentioned agreement. Also the number of tons of fresh fish carried by express companies from Mulgrave and Halifax to points west since 1906, on which the Government paid one-third, but not under the terms of the said agreement made as aforesaid, since 1911. Presented 9th February, 1915.—*Mr. Sinclair*.. .. ..*Not printed.*

60. Return to an Order of the House of the 20th April, 1914, for a return showing all the post offices in the several counties in the province of Nova Scotia for which a rent allowance, or a fuel fund, and light allowance is made, specifying the amount of such allowance in each case. Presented 9th February, 1914.—*Mr. Chisholm (Antigonish)*.
Not printed.

61. Return to an Order of the House of the 16th March, 1914, for a copy of all correspondence, letters, telegrams, etc., in the year 1913, relating to the carrying of the mails between Grand River Falls and Grand River, county of Richmond, and the awarding of the contract to Malcolm McCuspie. Presented 9th February, 1915.—*Mr. Kyte.*
....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

62. Return to an Order of the House of the 11th May, 1914, for a copy of all letters, telegrams, correspondence and memorials since the 1st day of November, 1911, relating to the post office at Johnstown, Richmond County, N.S., and to complaints against the present postmaster and recommendations for his dismissal. Presented 9th February, 1915.—*Mr. Kyte*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

77. Return to an Order of the House of the 8th June, 1914, for a copy of all documents bearing on an application or applications made to the Superintendent General of Indian Affairs or the Department, on an amendment to the Indian Act to facilitate the sale of the Indian Reserve of Restigouche, Que., or on the acquiring otherwise of any portion or the whole of the said reserve for industrial or other purposes, and any answers given thereto. Presented 11th February, 1915.—*Mr. Marcil (Bonaventure).*
Not printed.

78. Return to an Order of the House of the 2nd February, 1914, for a return showing the names of the sailors who have been employed on the *Eureka* during the years 1910, 1911, 1912 and 1913. Presented 12th February, 1915.—*Mr. Boulay*.. .. .. ..*Not printed.*

79. Return to an Order of the House of the 15th April, 1914, for a return showing the total bond issue of the Canadian Northern Railway Company and its affiliated companies; and the total cost to date of the construction of the lines of railways comprising the Canadian Northern Railway system, including terminals, sidings, etc. Presented 12th February, 1915.—*Mr. Murphy*.. .. ..*Not printed.*

80. Return to an Order of the House of the 18th May, 1914, for a copy of all papers, documents, reports and evidence relative to the dismissal or proposed dismissal of W. A. Case of the Government Quarantine Service at Halifax, N.S. Presented 12th February, 1915.—*Mr. McLean (Halifax)* .. ..*Not printed.*

81. Return to an Order of the House of the 26th February, 1914, for a return showing:—1. The freight rates charged during the years 1912 and 1913, on wheat from Canadian ports to ports in the United Kingdom by the Canadian Pacific Railway Company's Steamship Lines, the Allan Steamship Line and the Canadian Northern Railway Company's Steamship Lines. 2. The profits made by the freight boats of the said several lines which carried wheat alone or with other freight. Presented 12th February, 191[illegible] —*Sir James Aikins*.. .. ..*Not printed.*

82. Return to an Order of the House of the 16th February, 1914, for a copy of all reports, requests, petitions, memorials, letters, telegrams and other correspondence and documents relating to the removal, suspension or dismissal, by the management of the Intercolonial Railway, of Warren Carter and Frederick Avard, employees in the freight department of the Intercolonial Railway at Sackville, N.B.; and of all letters, telegrams and other correspondence in the Department of Railways and Canals, or in the railway offices at Moncton, or in any Department of Government, addressed to the Minister of Railways and Canals, or to any other member of the Government, or to any official of the Department of Railways and Canals, or of the Intercolonial Railway, by any person or persons in the county of Westmorland, N.B., in any manner relating to said employees and to the dispensing with their services, particularly of any letters sent to F. P. Brady, General Superintendent of the Intercolonial, by any party or parties in Sackville, N.B., or elsewhere, and of all replies to any such letters, correspondence or documents. Presented 12th February, 1915.—*Mr. Emmerson.*
Not printed.

83. Return to an Order of the House of the 23rd March, 1914, for a return showing:—1. What investigations and other work have been entrusted by the Government, or any Department thereof, to G. Howard Ferguson, member for the electoral division of the county of Grenville in the Legislative Assembly of the province of Ontario. 2. How much the said G. Howard Ferguson has been paid by the Government, or any Department thereof, for fees and disbursements since the 21st of September, 1911, and how much is still due and owing to him. 3. How much has been paid to the said G. Howard Ferguson by the Government or any Department thereof, since the 21st September, 1911, in connection with any other matter whatever. Presented 12th February, 1915.—*Mr. Proulx*.. .. ..*Not printed.*

84. Further Supplementary Return to an Order of the House of the 28th April, 1913, for a return showing a list of all the newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between 10th October, 1911, and the present date, together with a statement of the gross amount paid therefor between the above dates to each of said newspapers or to the proprietors of the same. Presented 12th February, 1915.—*Mr. Sinclair*.. .. ..*Not printed.*

84a. Further Supplementary Return to an Order of the House of the 30th April, 1913, for a return showing a list of all the newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between the 10th day of October, 1906, and 10th October, 1907, and between said dates in each of the years following up to the 10th October, 1911, together with a statement of the gross amount paid therefor for the years mentioned, to each of the said newspapers or the proprietors of the same. Presented 12th February, 1915.—*Mr. Thornton.*
Not printed.

CONTENTS OF VOLUME 28—*Continued.*

85. Partial Return to an Order of the House of the 4th March, 1914, for a return showing:—1. How many employees of the Federal Government of Canada, including all services and all departments, have been dismissed from 10th October, 1911, to the present date. 2. How many have resigned. 3. How many have deserted the service. 4. How many deserters have been punished. 5. How many new employees have been engaged or appointed by the present Government during the same period. Presented 12th February, 1915.—*Mr. Boivin*.. .. ..*Not printed.*

85*a*. Return to an Order of the House of the 4th March, 1914, for a return showing:—1. How many employees of the Federal Government of Canada, including all services and all departments, have been dismissed from 10th October, 1911, to the present date. 2. How many have resigned. 3. How many have deserted the service. 4. How many deserters have been punished. 5. How many new employees have been engaged or appointed by the present Government during the same period. Presented 4th March, 1915.—*Mr. Boivin*.. .. .. *Not printed*

85*b*. Further Supplementary Return to an Order of the House of the 4th March, 1914, for a return showing:—1. How many employees of the Federal Government of Canada, including all services and all departments, have been dismissed from 10th October, 1911, to the present date. 2. How many have resigned. 3. How many have deserted the service. 4. How many deserters have been punished. 5. How many new employees have been engaged or appointed by the present Government during the same period. Presented 5th March, 1915.—*Mr. Boivin*.. .. ..*Not printed.*

85*c*. Further Supplementary Return to an Order of the House of the 4th March, 1914, for a return showing:—1. How many employees of the Federal Government of Canada, including all services and all departments, have been dismissed from 10th October, 1911, to the present date. 2. How many have resigned. 3. How many have deserted the service. 4. How many deserters have been punished. 5. How many new employees have been engaged or appointed by the present Government during the same period. Presented 12th March, 1915.—*Mr. Boivin*.. .. ..*Not printed.*

85*d*. Further Supplementary Return to an Order of the House of the 4th March, 1914, for a return showing:—1. How many employees of the Federal Government of Canada, including all services and all departments, have been dismissed from 10th October, 1911, to the present date. 2. How many have resigned. 3. How many have deserted the service. 4. How many deserters have been punished. 5. How many new employees have been engaged or appointed by the present Government during the same period. Presented 7th April, 1915.—*Mr. Boivin*.. .. ..*Not printed.*

86. Further Supplementary Return to an Order of the House of the 18th February, 1914, for a copy of all charges, complaints, memorials, correspondence and telegrams, not already produced, relating to officials in any department of the Government since 10th October, 1911, the number of officials dismissed, reports of investigations held in respect of such charges, items of expenditure and costs of each investigation, the names of persons appointed to office in the place of dismissed officials, and of all recommendations received in behalf of persons so appointed in the province of Prince Edward Island. Presented 12th February, 1915.—*Mr. Hughes (Kings, P.E.I.)*

Not printed.

87. Partial Return to an Order of the House of the 18th May, 1914, for a return showing in all cases in which Charles Seager, of Goderich, acted as Government Commissioner in the investigation of officials charged with partizanship, or other offences, from and including the year 1896 to the year 1900; and the names of all officials dismissed by reason of the reports of the said Charles Seager, the positions held by such officials, and when such dismissals took place; with a copy of the evidence taken in all such cases, together with the commissioners reports thereon, and also showing what fees were paid to the said Charles Seager for conducting such investigations. Presented 12th February, 1915.—*Mr. Clark (Bruce)*.. .. ..*Not printed.*

88. Return to an Order of the House of the 16th March, 1914, for a copy of all correspondence, letters, telegrams, complaints and of all other documents in any way referring to the operation of the salmon hatchery at North East Margaree, and the fish pond at Margaree Harbour from 1911 to date. Presented 15th February, 1915.—*Mr. Chisholm (Inverness)*.. .. ..*Not printed.*

89. Return to an Address to His Royal Highness the Governor General of the 11th May, 1914, for a copy of all letters, telegrams, Orders in Council, contracts, tenders, papers and other documents in possession of the Department of Public Works, and of the Department of Militia and Defence, relating to the construction of an armoury at Amherst, N.S. Presented 15th February, 1915.—*Mr. Sinclair*... .. ..*Not printed.*

90. Letters of the Honourable Louis P. Pelletier, M.P., and the Honourable Wilfrid B. Nantel, M.P., resigning their positions as Postmaster General and Minister of Inland Revenue, respectively, and letters of the Prime Minister in acknowledgment thereof. Presented by Sir Robert Borden, 15th February, 1915.. .. ..*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

91. Report of Board of Officers on boots supplied to the Canadian Expeditionary Force. Presented by Hon. Mr. Hughes, 15th February, 1915.. .. ..*Not printed.*

92. Regulations under "The Destructive Insect and Pest Act." Presented by Hon. Mr. Burrell, 16th February, 1915.. .. ..*Not printed.*

93. Report on "The Agricultural Instruction Act," 1913-14, pursuant to Section 8 of the above named Act. Presented by Hon. Mr. Burrell, 16th February, 1915.
Printed for sessional papers only

93*a*. Supplementary Return to an Address to His Royal Highness the Governor General of the 9th February, 1914, for a copy of all arrangements made between the Government and the various provinces under the Agricultural Instruction Act. Presented 19th February, 1915.—*Sir Wilfrid Laurier*.. .. ..*Not printed.*

93*b*. Return to an Order of the House of the 20th April, 1914, for a copy of all documents, correspondence, letters, petitions, reports, etc., exchanged between Dr. C. C. James, Mr. J. C. Chapais and each of the Provincial Ministers of Agriculture, in connection with the distribution and the administration of the federal subsidy granted to the provinces for agricultural purposes since the granting of same. Presented 23rd February, 1915. —*Mr. Lapointe (Kamouraska)*.. .. ..*Not printed.*

94. Return to an Order of the House of the 11th February, 1914, for a copy of all telegrams, correspondence, instructions, recommendations, and other documents that passed between the Shellfish Fishery Commission of 1913, and the Department of Marine and Fisheries, from the date of the appointment of said Commission to 31st December, 1913, excluding such documents as have been printed in the published report of said Commission. Presented 16th February, 1915.—*Mr. Sinclair*.. .. ..*Not printed.*

95. Return to an Order of the House of the 16th March, 1914, for a copy of all correspondence, tenders, telegrams, complaints and of all other documents in any way referring to the collecting of spawn for the Margaree Lobster Hatchery during the years 1911-12, 1912-13 and 1913-14. Presented 16th February, 1915.—*Mr. Chisholm (Inverness)*.
Not printed.

96. Return to an Order of the House of the 10th February, 1915, for a return showing the amount of coal imported into Alberta, Saskatchewan and Manitoba, respectively, from the United States during the year 1914; also the amount of duty collected in each of the said provinces during the same year. Presented 16th February, 1915.—*Mr. Buchanan*... .. ..*Not printed.*

97. Copy of the Eighth Joint Report of the Commissioners for the Demarcation of the Meridian of the 141st Degree of West Lngitude. Presented by Hon. Mr. Roche, 18th February, 1915.. .. ..*Not printed.*

98. Return to an Order of the House of the 29th April, 1914, for a copy of the agreement between the Government of Canada and the Canadian Pacific Railway Company at the time the special land grant was made whereby the Canadian Pacific Railway Company were enabled to get their land grant in one block for the purpose of establishing their present irrigation system east of Calgary, province of Alberta. Presented 18th February, 1915.—*Mr. Burnham*.. .. ..*Not printed.*

99. Return to an Order of the House of the 23rd March, 1914, for a copy of all letters, telegrams and other documents in connection with the sale of any timber on Parry Island, Parry Sound District, and of advertisements, agreements for purchase and any other documents connected with such sale or grant of timber to any person or persons. Presented 18th February, 1915.—*Mr. Arthurs*.. .. ..*Not rpinted.*

100. Return to an Order of the House of the 11th February, 1914, for a return showing reasons for the dismissal of Mr. Larivière, Dominion Lands Agent at Girouard; the date of his appointment and of dismissal and salary at time of dismissal; also the name of agent appointed in his place, with date of appointment and salary. Presented 18th February, 1915.—*Mr. Oliver*.. .. ..*Not printed*

101. Annual Return respecting Trade Unions under Chapter 125, R.S.C., 1906. Presented by Hon. Mr. Coderre, 18th February, 1915.. .. ..*Not printed.*

102. A detailed statement of all bonds or securities registered in the Department of the Secretary of State of Canada, since last return (21st January, 1914) submitted to the Parliament of Canada under Section 32 of Chapter 19, of the Revised Statutes of Canada, 1906. Presented by Hon. Mr. Coderre, 18th February, 1915.. .. ..*Not printed*

CONTENTS OF VOLUME 28 *Continued.*

103. Return to an Order of the House of the 9th February, 1914, for a copy of all petitions, memorials, letters, telegrams, papers, and documents received by any department of the Government of Canada, or any Minister of the Crown from any company, corporation, person or persons, requesting the removal of any customs duties upon wheat or wheat products entering Canada, or protesting against any diminution or removal of such custom's duties, and any replies thereto. Presented 18th February, 1915.—*Mr. Maclean (Halifax)*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

112. Return to an Order of the House of the 15th February, 1915, for a copy of all letters, telegrams, minutes of investigation and other documents relating to the dismissal of James Brennan, fireman Intercolonial Railway at Stellarton. Presented 25th February, 1915.—*Mr. Macdonald*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

120. Return to an Order of the House of the 15th February, 1915, for a return showing whether any exportations of food-stuffs have been made since 1st August last, to European countries, other than the United Kingdom, France and Belgium, and if so, their nature and what countries. Presented 25th February, 1915.—*Mr. Cockshutt.*
Not printed.

121. Return to an Order of the House of the 11th February, 1915, for a copy of the petition, papers, documents and letters in connection with the incorporation of the Dominion Trust Company, incorporated by Special Act of the Parliament of Canada in 1912, being Chapter 89 of 2 George V. Presented 25th February, 1915.—*Mr. Proulx.*
Not printed.

121*a*. Return to an Order of the House of the 11th February, 1915, for a copy of all the correspondence exchanged between the Department of Justice and the Government of the province of British Columbia, or any of its members, with regard to a certain Act passed by the Legislature of the said province in 1913, being Chapter 89 of 2 George V., entitled: "An Act respecting the Dominion Trust Company." Presented 4th March, 1915.—*Mr. Proulx*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

128*b*. Return of Orders in Council which have been published in the *Canada Gazette* and in the British Columbia *Gazette*, between 11th April, 1914, and 10th December, 1914, in accordance with provisions of Subsection (*d*) of Section 38 of the regulations for the survey, administration, disposal and management of Dominion Lands within the 10-mile railway belt in the province of British Columbia. Presented by Hon. Mr. Roche, 12th March, 1915.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

139a. Return to an Order of the House of the 24th February, 1915, for a copy of all letters, papers and documents relating to the dismissal of the following officers in Shelburne County, N.S.: Wm. L. Smith, lightkeeper, Baccaro, N.S.; J. A. Arechia, harbour master, Lower Wood Harbour, and J. C. Morrison, harbour master, Shelburne, N.S. Presented 16th March, 1915.—*Mr. Law*.. .. ..*Not printed.*

140. Return to an Order of the House of the 9th March, 1914, for a return showing:—1. The amounts of money expended by this Government in the county of Portneuf from the 1st of July, 1896, to the 21st September, 1911. 2. The nature of the work done in each parish. 3. In what year such work was executed, and what amount was expended in each case. Presented 4th March, 1915.—*Mr. Sevigny*.. .. ..*Not printed.*

141. Return to an Order of the House of the 22nd February, 1915, for a copy of all papers, petitions, declarations, affidavits, sworn statements, requests, certificates and all other documents in connection with the naturalization of F. P. Gutelius, General Manager of the Intercolonial Railway. Presented 4th March, 1915.—*Mr. Gauvreau*.. ..*Not printed.*

142. Report of the delegates appointed to represent the Government of Canada at the Eighth International Purity Congress, held under the auspices of the World's Purity League, at Kansas City, Mo., November 5th-9th, 1914. Presented by Sir Robert Borden, 4th March, 1915. *Not printed.*

143. Return to an Address to His Royal Highness the Governor General of the 22nd February, 1915, for a copy of all complaints to the Government of the killing of one American citizen and the shooting of another by militia men, in the waters of Lake Erie, and of all correspondence with regard to the same with the British Embassy and American authorities. Presented 5th March, 1915.—*Sir Wilfrid Laurier*.. .. .. ..*Not printed.*

144. Return to an Order of the House of the 24th February, 1915, for a return showing the amounts in detail paid to Ward Fisher, of Shelburne, N.S., fishery inspector, for the years 1912 and 1913, for salary, office expenses, travelling expenses, and all other expenses. Presented 5th March, 1915.—*Mr. Law*.. .. ..*Not printed.*

145. Return to an Order of the House of the 15th February, 1915, for a return showing the names and addresses of all persons in Yarmouth County to whom the bounty under the Fenian Raid Volunteer Bounty Act has been paid; the names and addresses of all persons from said county whose applications have been rejected, and a list giving names and addresses of all applicants from said county whose applications have not yet been disposed of. Presented 5th March, 1915.—*Mr. Law*.. .. ..*Not printed.*

146. Return to an Order of the House of the 19th February, 1915, for a return showing the names and post office addresses of all persons in Guysborough County, N.S., to whom the bounty under the Fenian Raid Volunteer Bounty Act has been paid; the names and post office addresses of all persons whose applications have been rejected, and the reason for such rejections; also the names and post office addresses of all persons whose applications have been received but have not yet been paid, distinguishing between those who have been dealt with and allowed, and such applications as have been received but not yet considered, if any. Presented 5th March, 1915.—*Mr. Sinclair.* *Not printed.*

147. Return to an Order of the House, of the 12th February, 1915, for a return showing:—1. How many applications for seed grain have been received from residents of the three prairie provinces since June, 1914? 2. How many bushels of grain were included in the applications? 3. How many acres of land were to be seeded by the grain applied for? 4. How many bushels of wheat, oats and barley, respectively, the Government has on hand with which to meet the applications? 5. If arrangements have been made under which the several Provincial Governments will assist in meeting the needs of the settlers for seed grain? Presented 8th March, 1915.—*Mr. McCraney*.. ..*Not printed.*

148. Return to an Order of the House, of the 2nd February, 1914, for a return showing the number of ships chartered by the Government or any department thereof since October, 1911, to go to Hudson's Bay or James Bay; the name of each and the tonnage; the name and residence of each commanding officer; what cargo each carried, and what portion was landed, and where, what was lost and where, and what returned; with the values in each case. Presented 8th March, 1915.—*Mr. Graham*.. .. .. ..*Not printed.*

148a. Return to an Order of the House of the 3rd March, 1915, for a return showing the number of ships employed by the Railway Department, the number of men hired on vessels and on shore, and the amount expended for supplies, men and transportation from 31st March, 1914, to 31st December, 1914, in connection with the Hudson Bay Railway expenditures. Presented 22nd March, 1915.—*Mr. Macdonald*..*Not printed.*

149. Return to an Address to His Royal Highness the Governor General, of the 9th February, 1914, for a copy of all correspondence since the 1st January last with regard to the calling of an Imperial Conference on the subject of naval defence. Presented 8th March, 1915.—*Sir Wilfrid Laurier*.. .. ..*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

150. Return to an Order of the House, of the 11th February, 1915, for a return showing the names and addresses of all persons in Antigonish County to whom the bounty under the Fenian Raid Volunteer Bounty Act has been paid; the names and addresses of all persons from said county whose applications have been rejected, and a list giving names and addresses of all applications from said county whose applications have not yet been disposed of. Presented 8th March, 1915.—*Mr. Chisholm (Antigonish).*
Not printed.

151. Return to an Order of the House, of the 3rd March, 1915, for a return showing:—1. Who were the different officers commissioned to the 17th Nova Scotia Regiment at Valcartier before they sailed for England? 2. Who are now the commissioned officers of said regiment. Presented 8th March, 1915.—*Mr. Macdonald*.. .. ..*Not printed.*

152. Return to an Order of the House, of the 9th February, 1915, for a copy of all accounts of the transfer of the storm signal at Shippigan, N.B., from its former position on land to the public wharf, showing the total cost of said transfer during the months of October and November in 1911. Presented 8th March, 1915.—*Mr. Turgeon.*
Not printed.

153. Return to an Order of the House, of the 4th May, 1914, for a copy of all correspondence, telegrams, petitions, including the signatures of such petitions, and all other documents and papers in the possession of the Department of Trade and Commerce, or the minister of said department, or in the possession of the Prime Minister, relating to any application made between 1st November, 1913, and date hereof by parties in Nova Scotia asking for Government assistance towards the transportation of fresh fish between ports in Nova Scotia and the United States. Presented 9th March, 1915.—*Mr. Sinclair.*
Not printed.

154. Statement of Mr. H. C. Crowell, staff correspondent of the Halifax *Chronicle*, and correspondence in connection with statements appearing in the press referring to alleged ill-treatment of the 17th Regiment of Nova Scotia, at Salisbury Plains. Presented by Sir Robert Borden, 9th March, 1915.. .. ..*Not printed.*

155. Return to an Order of the House, of the 3rd March, 1915, for a return showing:—1. The estimated cost of fitting up the works of the Canadian Car and Foundry Company, Limited, at Amherst, N.S., for military purposes. 2. The rent or other remuneration being paid, or will be paid, this company for the use of its buildings. 3. Who are to supply the military provisions, including food for men, coal for heating and cooking, and food and other supplies for horses quartered on these premises, and at what prices. 4. Whether it is true that forms for tendering for such military supplies could only be obtained from the office of the sitting member for Cumberland County, and in several cases forms of tender were refused to applicants. 5. Whether the Government is aware that in the case of the supplying of hay, as alleged, not only Liberals were not allowed to tender for same, but supporters of the Government were informed they would not secure any part of the contract, if any of the hay to be supplied was to be purchased from a Liberal. Presented 11th March, 1915.—*Mr. Copp*.. .. .. ..*Not printed.*

156. Return to an Address to His Royal Highness the Governor General, of the 1st March, 1915, for a copy of all correspondence of the Imperial authorities on the subject of loans from the Imperial Treasury to the Canadian Government. Presented 11th March, 1915.—*Mr. Maclean (Halifax)*.. .. ..*Not printed.*

157. Return to an Order of the House of the 3rd March, 1915, for a copy of all correspondence, recommendations, letters and telegrams relating to the appointment of H. W. Ingraham as Assistant Registrar of Alien Enemies at Sdyney, N.S., and to his dismissal from the said office. Presented 12th March, 1915.—*Mr. Kyte*.. .. ..*Not printed.*

158. Return to an Address to His Royal Highness the Governor General of the 11th February, 1915, for a copy of all correspondence relating to the purchase of, and payment by the Government for two submarines authorized by Order in Council dated the 7th August, 1914, and of any other Order or Orders in Council relating thereto; and also of all reports received by the Government or any department thereof referring to said submarines. Presented 12th March, 1915.—*Mr. Pugsley* .. ..*Printed for distribution only.*

158*a*. Supplementary Return to an Address to His Royal Highness the Governor General, of the 11th February, 1915, for a copy of all correspondence relating to the purchase of, and payment by the Government for two submarines authorized by Order in Council dated the 7th August, 1914, and of any other Order or Orders in Council relating thereto; and also of all reports received by the Government or any department thereof referring to said submarines. Presented 15th March, 1915.—*Mr. Pugsley.*
Printed for distribution only.

CONTENTS OF VOLUME 28—*Continued.*

158*b*. Further Supplementary Return to an Address to His Royal Highness the Governor General, of the 11th February, 1915, for a copy of all correspondence relating to the purchase of, and payment by the Government for two submarines authorized by Order in Council dated the 7th August, 1914, and of any other Order or Orders in Council relating thereto; and also of all reports received by the Government, or any department thereof, referring to said submarines. Presented 24th March, 1915.—*Mr. Pugsley*
Printed for distribution only.

159. Return to an Order of the House of the 19th February, 1915, for a copy of all correspondence, telegrams, petitions, letters and all other documents in any way referring to the dismissal of Mr. Mallet, captain of the life-boat in the life-saving station at Chetticamp, and the appointment of his successor. Presented 12th March, 1915.—*Mr. Chisholm (Antigonish)*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

170. Return to an Order of the House of the 11th February, 1915, for a copy of all petitions, letters, telegrams and correspondence regarding a proposed daily mail service between Lower South River and South Side Harbour, Antigonish County, and improved postal accommodation for the residents of the last-named district. Presented 17th March, 1915.—*Mr. Chisholm (Antigonish)*.. .. ..*Not printed.*

171. Return to an Order of the House of the 1st March, 1915, for a copy of all letters, documents, telegrams, recommendations, petitions and other papers received by the Post Office Department since 1st January, 1914, relating to the contract for carrying the mails between Guysborough and Canso, N.S. Presented 18th March, 1915.—*Mr. Sinclair*.. .. ..*Not printed.*

172. Return to an Order of the House of the 22nd February, 1915, for a return showing:1. The total number of employees, both permanent and temporary, at the following post offices: Montreal, Toronto, Winnipeg, Halifax, Quebec, St. John, N.B., and Vancouver. 2. The total amount of salaries paid in each case. 3. The total number of employees, and the amount of salaries paid in the above offices on the 1st of October, 1911. Presented 18th March, 1915.—*Mr. Lemieux*.. .. ..*Not printed.*

173. Return to an Order of the House of the 19th February, 1915, for a copy of all correspondence, telegrams, letters, petitions and documents of all kinds in any way referring to a proposed change in the mail route from Inverness railway station to Margaree Harbour. Presented 18th March, 1915.—*Mr. Chisholm (Inverness)*.. ..*Not printed.*

174. Return to an Order of the House of the 8th March, 1915, for a return showing:—1. From how many firms or individuals the Government, or any department thereof, has ordered soldiers uniforms since the 1st of July, 1914. 2. The names of these firms. 3. How many Oliver equipments have been ordered from each firm. 4. How many of these uniforms each firm has delivered up to date. 5. How many each firm has yet to deliver. 6. The price each firm is receiving for these uniforms. Presented 18th March, 1915.—*Mr. Murphy*.. .. ..*Not printed.*

175. Return to an Order of the House of the 8th March, 1915, for a return showing:—1. From how many firms or individuals the Government, or any department thereof, has ordered Oliver equipments since the 1st of July, 1914? 2. The names of these firms? 3. How many Oliver equipments have been ordered from each firm? 4. How many each firm has delivered up to date? 5. How many each firm has yet to deliver? 6. The price each firm is receiving for these Oliver equipments? Presented 18th March, 1915.—*Mr. Murphy*.. .. ..*Not printed.*

176. Return to an Order of the House of the 11th March, 1915, for a copy of all letters, correspondence, etc., relating to the appointment of William Gore Foster, of Dartmouth, N.S., to the position of Inspector of Indian Reserves. Presented 18th March, 1915.—*Mr. Carroll*.. .. ..*Not printed.*

177. Return to an Order of the House of the 15th February, 1915, for a copy of all letters, telegrams, correspondence, leases, and other documents relating to the cutting of lumber by Mr. B. F. Smith, and others, from the so-called Tobique Indian Reserve in the province of New Brunswick since the twelfth day of March, A.D. 1911, and also of all agreements, offers and promises made either by the said B. F. Smith or the Department of Indian Affairs, with reference to the sale or disposal of any of the said Tobique Indian Reserve since the said date, or any logs or lumber cut thereon. 2. Also a statement of all lumber cut by the said B. F. Smith from the said reserve, the rates of stumpage charged, and the amounts actually paid thereon from the first day of January, 1912, down to the date hereof. Presented 18th March, 1915.—*Mr. Carvell.*
Not printed.

178. Return to an Order of the House of the 8th March, 1915, for a return showing:—1. The number of customs officers employed at the customs port of Masonville, Quebec, on 20th September, 1911. 2. The names of these officers. 3. The salary each one received. 4. The total amount of salaries paid the officers at this port. 5. The number of customs officers employed at the port of Masonville at the present time. 6. The names of these officers. 7. The salary each one receives. 8. The total amount of salaries paid to the officers at this port. Presented 18th March, 1915.—*Mr. Kay*... ..*Not printed.*

179. Return to an Order of the House of the 8th March, 1915, for a return showing:—1. The number of customs officers employed at the customs port of Highwater, Quebec, on 20th September, 1911. 2. The names of these officers. 3. The salary each one received. 4. The total amount of salaries paid the officers at this port. 5. The number of customs officers employed at the port of Highwater at the present time. 6. The names of these officers. 7. The salary each one receives. 8. The total amount of salaries paid to the officers at this port. Presented 18th March, 1915.—*Mr. Kay*... ..*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

180. Return to an Order of the House of the 8th March, 1915, for a return showing:—1. The number of customs officers employed at the customs port of Abercorn, Quebec, on 20th September, 1911. 2. The names of these officers. 3. The salary each one received. 4. The total amount of salaries paid the officers at this port. 5. The number of customs officers employed at the port of Abercorn at the present time. 6. The names of these officers. 7. The salary each one receives. 8. The total amount of salaries paid to the officers at this port. Presented 18th March, 1915.—*Mr. Kay*... ..*Not printed.*

181. Return to an Order of the House, of the 1st March, 1915, for a copy of all petitions, letters, communications and other documents relating to or bearing upon the dismissal of Leonard Hutchinson, chief keeper at Dorchester penintentiary. Presented 18th March, 1915.—*Mr. Copp*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

192. Return to an Order of the House of the 8th March, 1915, for a return showing:—1. The fractional areas of homestead lands or otherwise in the province of Saskatchewan sold in the year 1914. 2. The name of the purchaser, and the price paid in each case. Presented 22nd March, 1915.—*Mr. Martin (Regina)*... .. ..*Not printed.*

193. Return to an Order of the House of the 25th February, 1915, for a return showing, in reference to the answer to question No. 6 of 9th February, and answered 15th February as per page 161 unrevised *Hansard*, the cost of furnishing the Government offices in each of the said buildings. Presented 22nd March, 1915.—*Mr. Turriff.*
Not printed.

194. Return to an Order of the House of the 1st March, 1915, for a return showing the amount of railway subsidies paid in the county of Inverness since 1896, to date, and the dates on which such subsidies were paid. Presented 22nd March, 1915.—*Mr. Chisholm (Inverness)*.. .. ..

CONTENTS OF VOLUME 28—*Continued.*

204. Return to an Order of the House of the 22nd February, 1915, for a copy of all petitions, correspondence, complaints, reports and other documents relating to the dismissal of Alfred H. Bonnyman, postmaster of Mattatall Lake, in the county of Colchester, N.S. Presented 24th March, 1915.—*Mr Sinclair*.. .. ..*Not printed.*

205. Return to an Address to His Royal Highness the Governor General, of the 1st March, 1915, for a copy of all correspondence, documents, charges, evidence, findings and Orders in Council in reference to the dismissal of John Thomas, postmaster at Hammond's Plain, Halifax County, N.S. Presented 24th March, 1915.—*Mr. Maclean (Halifax)*.. .. ..*Not printed.*

205*a*. Supplementary Return to an Address to His Royal Highness the Governor General, of the 1st March, 1915, for a copy of all correspondence, documents, charges, evidence, findings and Orders in Council in reference to the dismissal of John Thomas, postmaster at Hammond's Plain, Halifax County, N.S. Presented 8th April, 1915.—*Mr. Maclean (Halifax)*.. .. ..*Not printed*

206. Certified copy of a Report of the Committee ofthe Privy Council, approved by His Royal Highness the Governor General, with reference to the question of providing adequate pensionary assistance for officers and men disabled or partially disabled on active service or for the dependents of such officers and men should they be killed on active service. Presented by Sir Robert Borden, 24th March, 1915.. .. .. *Not printed.*

207. Return to an Order of the House of the 8th March, 1915, for a return showing:—1. From how many firms or private individuals the Government, or any department of the Government has ordered saddles since the 1st of July, 1914? 2. The names of these firms? 3. How many saddles have been ordered from each firm? 4. How many saddles each firm has delivered up to date? 5. How many saddles each firm has yet to deliver? 6. The price each firm is receiving for these saddles? Presented 26th March, 1915.—*Mr. Murphy*.. .. ..*Not printed.*

208. Return to an Order of the House of the 8th March, 1915, for a copy of all correspondence, letters, telegrams and other documents relating to the dismissal of Mr. F. B. Hurlbert, postmaster at Springdale, Yarmouth County, N.S., and the removal of the office. Presented 30th March, 1915.—*Mr. Law*.. .. ..*Not printed.*

209 Return to an Order of the House of the 8th March, 1915, for a copy of all letters, petitions, telegrams and correspondence between the Hon. L. P. Pelletier, ex-Postmaster General and any person or persons of the county of Lévis, which during the month of April, 1912, had any connection with the appointment of G. A. Marois to a position in the customs office at Quebec, and the appointment of J. E. Gingras as postmaster of St. Romuald and Etchemin. Presented 30th March, 1915.—*Mr. Bourassa.*
Not printed.

210. Return to an Order of the House of the 22nd February, 1915, for a copy of all letters, telegrams, petitions and documents of all kinds in possession of the Post Office Department, referring in any way to the conduct of the postmaster at Grand Etang since his appointment until the present date. Presented 0th March, 1915.—*Mr. Chisholm (Inverness)*.. .. ..*Not printed.*

211. Return to an Order of the House of the 1st March, 1915, for a copy of all telegrams, letters, papers, documents, evidence and reports, in connection with the dismissal of Charles H. Marshall as postmaster at Nanton, Alberta. Presented 30th March, 1915.—*Mr. Warwick*.. .. ..*Not printed.*

212. Return to an Order of the House of the 1st March, 1915, for a copy of the report of the officer in charge of the lobster hatchery at Port Daniel West, and of the report of the inspection thereof for the season 1914. Presented 31st March, 1915.—*Mr. Marcil.*
Not printed.

213. Return to an Order of the House of the 24th February, 1915, for a copy of all correspondence, petitions, documents, etc., in connection with a petition of Donald Williams and others in respect to the regulation of fish traps in Green Harbour and vicinity. Presented 31st March, 1915.—*Mr. Law*.. .. ..*Not printed.*

214. Return to an Order of the House of the 9th February, 1915, for a copy of all correspondence, petitions, departmental recommendations and other papers and documents in the Department of Marine and Fisheries relating to the definition of a "coasting voyage," as defined in the Canada Shipping Act since the revision of the statutes in 1886. Presented 1st April, 1915.—*Mr. Sinclair*.. .. ..*Not printed.*

215. Return to an Order of the House of the 1st March, 1915, for a copy of all advertisements, tenders, contracts, vouchers, letters, documents, etc., relating to the establishment of the ferry service between the City of Halifax and Dartmouth, N.S., for the employees of the Marine and Fisheries Department at Halifax, N.S. Presented 1st April, 1915.—*Mr. Maclean (Halifax)*.. .. ..*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

216. Return to an Order of the House of the 24th February, 1915, for a copy of all pay-rolls, vouchers in detail, correspondence and all other documents in connection with the following public wharves in Shelburne; breakwater or wharf at East Green Harbour; shed on public wharf at Shelburne, and repairs to Gunning Cove wharf. Presented 1st April, 1915.—*Mr. Law*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

228. Return to an Address to His Royal Highness the Governor General of the 19th February, 1915, for a copy of all Orders in Council, letters and telegrams exchanged between the Dominion Government and the several provinces, concerning the proposed transfer of fisheries in tidal waters from the Provincial to the Federal control. Presented 1st April, 1915.—*Mr. Lemieux*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

239. Return to an Address to His Royal Highness the Governor General, of the 23rd February, 1915, for a copy of all letters, telegrams, reports, recommendations, Orders in Council and all other documents and papers in connection with rewards to the officers and crews of steamers *John L. Cann* and *Westport III*, for their heroic efforts in saving the passengers and crews of ss. *Cobequid*, wrecked on Trinity Lodge, 13th January, 1914. Presented 7th April, 1915.—*Mr. Law*.. .. ..*Not printed.*

240. Return to an Order of the House of the 29th March, 1915, for a copy of all documents, letters, telegrams, reports, etc., relating to the dismissal of Alexandre Blais, of the city of Lévis, from the position of customs officer at Bradore Bay, and the appointment of his successor or successors. Presented 7th April, 1915.—*Mr. Bourassa*.. ..*Not printed.*

241. A Return to an Address of the Senate dated 18th March, 1915, for:—1. A return showing all appointments to the Civil Service, Department of the Interior, in that area contained in the present constituencies of Medicine Hat and Macleod, giving names, date of appointment, how appointed, and salaries from the year 1896 to the present date. 2. Also, all vacancies by death, resignation or dismissal, giving name, date, length of service and cause of dismissal in the same area and during the same period.—(*Senate*). *Not printed.*

242. Return to an Order of the House of the 1st March, 1915, for a copy of charges made against J. Herbert Sweetman, customs officer at Port Daniel Centre, Quebec, which brought about his dismissal; and also of charges against Velson Horie, lighthouse keeper at Port Daniel West, Quebec, which brought about his dismissal. Presented 8th April, 1915.—*Mr. Marcil* (*Bonaventure*).. .. .. *Not printed.*

243. Return to an Order of the House of the 22nd February, 1915, for a copy of all correspondence, recommendations, petitions, contracts, tenders and other papers and documents in any way connected with the letting of the contract for carrying the mails between Guysborough and Erinville, N.S. Presented 8th April, 1915.—*Mr. Sinclair.* *Not printed.*

244. Return to an Order of the House of the 10th March, 1915, for a copy of all reports, petitions, letters, telegrams and other documents in connection with the dismissal of W. M Thomson from the postmastership at Fort Qu'Appelle, and of any petition or petitions for his reinstatement, and of all correspondence in connection therewith. Presented 8th April, 1915.—*Mr. Thomson* (*Qu'Appelle*).. .. ..*Not printed*

245. Return to an Order of the House of the 22nd March, 1915, for a copy of all letters, telegrams, correspondence and petitions received in the Post Office Department, in any way referring to the calling of tenders for the Antigonish-Sherbrooke mail service, which tenders were opened or due at the Post Office Department on the 11th December last; and of all representations or requests, recommending or suggesting that new tenders should be invited as was done early in February last. Presented 8th April, 1915. —*Mr. Chisholm* (*Inverness*)... .. ..*Not printed.*

246. Return to an Order of the House of the 3rd March, 1915, for a copy of all letters, telegrams, papers and other documents in regard to a proposed rural mail delivery service between Pictou and Saltsprings, Pictou county, and as to the arrangements for the existing service between those points. Presented 8th April, 1915.—*Mr. Macdonald.* *Not printed.*

247. Return to an Address of His Royal Highness the Governor General, of the 1st March, 1915, for a copy of all letters, telegrams, reports, recommendations, Orders in Council, and all other documents and papers whatsoever relating to or in any wise connected with the establishment of rural mail routes and deliveries from Bridgetown to Granville Ferry, county of Annapolis, and especially of all letters, telegrams, reports, recommendations and documents relating to the closing of the post offices at Belleisle, Upper Granville, and the establishment of the post office at Granville Centre, all in the county of Annapolis. Presented 8th April, 1915.—*Mr. Macdonald*.. .. ..*Not printed.*

248. Return to an Order of the House of the 22nd February, 1915, for a copy of all telegrams, letters, reports, petitions and all other documents in any way referring to the proposed line of railway from Orangedale to Cheticamp. Presented 9th April, 1915.—*Mr. Chisholm* (*Inverness*).. .. ..*Not printed.*

249. Return to an Order of the House of the 11th March, 1915, for a copy of all documents, investigations, reports, correspondence, etc., relating to the burning of certain buildings belonging to the Trois Pistoles Pulp and Lumber Company and to André Leblond, near Tobin station, on the Intercolonial Railway. Presented 9th April, 1915.—*Mr. Lapointe* (*Kamouraska*).. .. ..*Not printed.*

250. Return to an Order of the House of the 18th March, 1915, for a return showing the names of all officials, assistants and clerks, employed in the railway offices at Moncton, N.B., and the salary paid to each; also the names of officials formerly employed in said offices who have been retired on superannuation allowance, and the amount of retiring allowance being paid to each. Presented 9th April, 1915.—*Mr. Copp*.. ..*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

251. Return to an Order of the House of the 24th March, 1915, for a return showing the names of all persons from whom lands have been purchased, the quantity of land so acquired, and the amount paid therefor, in connection with the Dartmouth and Dean's Post Office Branch of the Intercolonial Railway since the date of return numbered 128 made to Parliament at the last regular session thereof. Presented 9th April, 1915.—*Mr. Maclean (Halifax)*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

260*b*. Return to an Order of the House of the 8th March, 1915, for a return showing:—1. From how many firms or private individuals the Government or any department of the Government, has ordered service shirts since the 1st of July, 1914? 2 The names of these firms? 3. How many service shirts have been ordered from each firm? 4. How many each firm has delivered up to date? 5. How many each firm has yet to deliver? 6. The price each firm is receiving for these service shirts? Presented 10th April, 1915.—*Mr. Carroll*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

267. Return to an Order of the House of the 17th March, 1915, for a copy of all petitions, letters, documents, etc., between persons in the province of Nova Scotia and the Department of Trade and Commerce since 1st August last, with regard to Atlantic ocean freight rates on subsidized steamers or otherwise. Presented 19th April, 1915.—*Mr. Maclean (Halifax)*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

278. Return to an Order of the House of the 8th April, 1915, for a return showing:—1. The number of employees connected with the administration of the Three Rivers post office on the 21st September, 1911, and the annual amount paid in salaries at that date for such service. 2. The number of employees connected with the administration of the Three Rivers post office at the present date, and the amount of the annual salaries paid for such service. 3. The number of employees in the Customs Department for Three Rivers on the 21st September, 1911, and the amount of the annual salaries paid for such service. 4. The number of employees in the Customs Department for Three Rivers at the present date, and the annual amount of the salaries paid for such service. 5. The number of employees in the Inland Revenue Department for the district of Three Rivers on the 21st September, 1911, and the annual amount of salaries paid for such service. 6. The number of employees at the present date in the Inland Revenue Department for the district of Three Rivers, and the amount of the annual salaries paid for such service. 7. The number of employees, and the amount paid in salaries for the works on the St. Maurice, in the county of Champlain, during the year 1911-12. 8. The number of employees, and the amount of salaries paid per year for the works on the St. Maurice, in the county of Champlain, since 1911-12. 9. If the employees whose names follow, were dismissed on the 26th and 27th November, 1914, and the 4th and 5th January, 1915; Wildé Lavalée, Pierre Thicierge, Joseph Paquin, sr., Joseph Paquin, jr., Athanase Gélinas, clerks. 10. If so, at whose request, and for what reasons. 11. If those days were taken off the salaries of such employees. Presented 13th April, 1915.—*Mr. Bureau*.. .. .. .

CONTENTS OF VOLUME 28—*Continued.*

289. Report and evidence upon the matter known as: "Grazing Ranch No. 2422, J. G. Turriff, A. J. Adamson, and J. D. McGregor." Presented by Hon. Mr. Coderre, 13th April, 1915.. .. .. .

ERRATA.

Page 16, The addition of the left column $28,953.80, should read $28,923.81.

Page 137, Low, Jno. E., Inspector of Bonded Factories, should read : Gow, Jno. E.

Page 157, Ottawa Weights & Measures District : opposite Hinchey, E. H., (in Superannuation column) the amount of $31.97 should have been inserted.

REPORTS, RETURNS AND STATISTICS

OF THE

INLAND REVENUES

OF THE

DOMINION OF CANADA

FOR THE YEAR ENDED MARCH 31

1914

PART I — EXCISE

PRINTED BY ORDER OF PARLIAMENT

OTTAWA
PRINTED BY J. DE L. TACHÉ, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1914

[No. 12—1915]

To His Royal Highness, Field Marshal Prince Arthur William Patrick Albert, Duke of Connaught and Strathearn, K.G., K.T., etc., etc., etc., Governor General and Commander in Chief of the Dominion of Canada.

MAY IT PLEASE YOUR ROYAL HIGHNESS:

I have the honour to transmit to Your Excellency the RETURNS AND STATISTICS of Inland Revenue of the Dominion of Canada, for the year ended March 31, 1914, as prepared and laid before me by the Deputy Minister of Inland Revenue.

All of which is respectfully submitted.

W. B. NANTEL,
Minister of Inland Revenue.

CONTENTS

	Pages.
Report of the Deputy Minister of Inland Revenue, for the Fiscal Year ended March 31, 1914.	i to xxv
Financial Statements, as detailed below	1 to 62
Statistics (Appendix A)	64 to 121
Expenditures, &c. (Appendix B)	122 to 178
Index, Alphabetical	*Vide end*

FINANCIAL

No. of Statements.		Pages.
1	General Revenue Account—Showing amount of Revenue accrued and collected from all sources during the year ended March 31, 1914	3
2	General Expenditure Account—Showing the cost of collecting the above	4-5
3	Excise Collection Divisions—In account with Revenues	6 to 9
4	" Expenditures	10 to 13
5	Preventive Service—Expenditure Account	14
6	Food Inspection " "	15-16
7	Bill Stamps—Distributors of—In account with Inland Revenue Department	17
8	Law Stamps " " " "	18
9	Sundry Minor Revenues	19
10	" Expenditures	19
11	Ferries—Lessees, etc., of—In account with Revenue	20
12	Comparative Statement of Excisable Articles taken for consumption, during the year ended March 31, 1912, and the years ended March 31, 1913 and 1914, respectively	22-23
13	Statement showing the amounts deposited monthly (by Inland Revenue Officers and others) to the credit of the Honourable the Receiver General on account of each of the above Revenues, respectively	24 to 33
14	Comparative Monthly Statement of Excise Revenue accrued—Showing increase or decrease of Revenue yielded by each article, respectively, during each month as compared with the respective period of the previous year	34-35
15	Refunds—Statement of—Showing names of parties to whom, and under what authority, duties were refunded	36 to 43
16	Departmental Expenditure—Showing Expenditure on account of the Inside Service of the Department	44
17	Weights and Measures, Gas, Electric Light and Law Stamps—Statement showing Revenue accrued	45
18 *(a)*	Weights and Measures—Inspection Districts—In account with Revenue	46-47
18 *(b)*	" Old " " "	48
19 *(a)*	" Inspection Districts—In account with Expenditure	49-50
19 *(b)*	" Old " " "	51
20	Gas Inspection Districts—In account with Revenue	52-53
21	" " " Expenditure	54-55
22	Electric Light Inspection Districts—In account with Revenue	56-57
23	" " " Expenditure	58-59
24	Statement showing the amount voted, and the Expenditure authorized, for each Service for 1913-1914	60
25	Statement showing the transactions in connection with the manufacture of Methylated Spirits	61-62

STATISTICS—(Appendix A.)

EXCISE.

	Spirits.	Malt.	Malt Liquor.	Manufactured Tobacco.	Raw Leaf Tobacco.	Canada Twist Tobacco.	Cigars.	Petroleum.	Bonded Manufactures.	Acetic Acid.	Methylated Spirits.
	Pge	Pge	Pge	Pge	Pge	Pge	Pge	Pge	Pge	Pge	Pge
Return of Manufactures—Showing the number of Licenses issued and Fees collected, the materials used, the quantity produced, the amount of duties collected, ex-manufactory, and the amount of duties accruing upon excisable articles warehoused	64	76	82	84	..	....	104	....	112	120	....
Comparative Statement of the above, for the year ended March 31, 1913, and the year ended March 31, 1914, respectively	64	77	83	86	....	....	106	...	114	120	....
Return of Distilleries—Showing their transactions during the year ended March 31, 1914	66	....	....	....	....	..	...	....	....	...	....
Return of Warehouse Transactions—Showing the quantity of excisable goods remaining in bonded warehouses of each Collection Division, respectively, from previous years; quantity placed in warehouse ex-factory during the year ended March 31, 1914, placed in warehouse from other Collection Divisions; also, quantity ex-warehoused for consumption, with duty accrued thereon; ex-warehoused to be rewarehoused in other Collection Divisions; ex-warehoused for exportation; also quantity used in bonded factories, and remaining in warehouse March 31, 1914	68	78	..	88 90	98	....	108	..	116	....	....
Comparative Statement of the above, for the year ended March 31, 1913 and the year ended March 31, 1914, respectively	72	80	..	89 94	100	....	110	....	118	....	....
Return of Revenue collected from Canada Twist Tobacco	....	....	..	....	...	103	....	....	....	..	....
Comparative Statement of the above, for the year ended March 31, 1913, and the year ended March 31, 1914, respectively	....	....	....	....	...	103	....	....	....	..	....
Return of Petroleum and Naphtha—Showing the quantity inspected during the year ended March 31, 1914	....	....	....	....	....	....	....	111	....	....	....
Comparative Statement of Petroleum and Naphtha inspected during the year ended March 31, 1913, and the year ended March 31, 1914, respectively	....	....	....	....	....	....	....	111	....	....	....
Methylated Spirits—Statement showing the quantity of raw material on hand at beginning of year, raw material used, quantity produced and how disposed of	....	....	..	....	....	....	....	....	..	....	121

EXPENDITURES—(Appendix B.)

	Inside Service.	Excise.	Weights and Measures.	Gas.	Electric Light.	Adulteration of Food.
	Page.	Page.	Page.	Page.	Page.	Page.
SALARIES.						
Paid to each Officer employed in collecting Revenue.....						
SUPERANNUATION.						
How much deducted from each Officer's salary.....						
INSURANCE FEES.						
How much deducted from each Officer's salary.....	152	122	157	163	167	149
RETIREMENT.						
How much deducted from each Officer's salary.....						
CONTINGENCIES.						
Authorized by the Department for office rent, fuel, travelling expenses, &c.....						

Page.

Distribution of Seizures 146

Statement No. 10 showing the number of parties under licences for the year 1914-1915 173

Summary Statement No. 11 of the number of permanent officers employed in the different services of the Inland Revenue Departement for the year 1913-1914..... 174

REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

To the Hon. W. B. Nantel, K.C.,
Minister of Inland Revenue.

Sir,—Herewith I have the honour to submit statements of the Inland Revenues collected by this department during the Fiscal Year ended March 31, 1914, with the usual information as to the cost of collections, and statistics respecting the sources whence these revenues were derived.

The following summary comparison shows the accrued revenue for the Fiscal Years ended March 31, 1910, 1911, 1912, 1913 and 1914.

—	1910.	1911.	1912.	1913.	1914.
	$	$	$	$	$
Excise	15,283,665	16,919,553	19,306,069	21,487,918	21,488,867
Ferry Licenses	553	474	1,024	529	964
Weights and Measures, Gas and Law Stamps	156,460	151,229	163,958	171,509	185,854
Electric Light	46,316	59,583	66,060	74,833	80,476
Other Revenues	4,571	20,837	5,669	7,501	5,523
Methylated Spirits	71,464	90,999	93,083	118,077	116,208
Totals	15,563,029	17,242,675	19,635,863	21,860,367	21,877,892

DETAILS of Excise Revenue accrued during the undermentioned Fiscal Years:

—	1	2	3	4	5
	1910	1911	1912	1913	1914
	$	$	$	$	$
Spirits	7,169,760	7,913,376	8,667,666	9,474,142	9,038,028
Malt Liquor	27,314	52,893	86,756	149,437	161,416
Malt	1,434,004	1,529,472	1,716,547	1,864,525	2,012,301
Tobacco	6,067,599	6,784,140	8,130,776	9,192,181	9,489,426
Cigars	432,539	470,197	517,646	602,269	588,935
Acetic Acid	6,037	10,242	11,300	10,526	11,413
Manufactures in bond	77,811	77,840	84,720	91,460	92,160
Seizures	3,051	5,605	2,319	2,662	1,434
Other receipts	65,549	75,789	90,659	102,324	93,753
Methylated spirits	71,464	90,999	93,083	118,077	116,208
Totals	15,355,128	17,010,553	19,401,472	21,607,003	21,605,074

The quantity of spirits produced during the Fiscal Year was 6,972,583 proof gallons, as compared with 6,458,452 proof gallons produced in the previous Fiscal Year. The raw material taken for use, in the production of spirits, during the Fiscal Year was as follows:—

	Lbs.
Malt	7,434,935
Indian Corn	72,170,255
Rye	15,362,100
Wheat	2,466,162
Oats	712,642
Barley	.....
Rice	.....
Molasses	19,690,720

The transactions of the several distilleries will be found stated in detail in Appendix A (Statement No. 3), pages 66 and 67.

		Proof galls.
There was on April 1, 1913, in process of manufacture		425,712
Manufactured during the Fiscal Year		6,972,583
Returned to distilleries for redistillation—Duty paid	668	
" " " In bond	566,006	
		566,674
Received into distilleries from other sources—Duty paid		11,067
" " " In bond		.....
Total		7,976,036

This was disposed of as follows:—

	Proof Galls.
Placed in warehouse	7,488,904
Fusel oil written off	17,131
Deficiency arising from rectification	2,001
Remaining in process of manufacture March 31, 1914, by actual stock taking	468,000
Total	7,976,036

SPIRITS:—

The following statement shows the warehousing transactions in spirits during the Fiscal Year ended March 31, 1914, and the four preceding Fiscal Years.

Fiscal Years.	1	2	3	4	5	6	7	8	9
	In Warehouse at beginning of year. Including transits.	Warehoused during the year. Ex-distillery.	Otherwise Warehoused.	Taken for consumption.	Exported.	Used in Bonded Factories.	Otherwise accounted for.	For redistillation.	In Warehouse at end of year, including transits.
	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.
1909 1910...	20,853,219	6,807,443	64	3,777,156	361,934	557,401	330,643	1,168,519	21,465,673
1910–1911....	21,465,673	6,015,018	151,628	4,146,452	273,963	455,598	413,562	781,819	21,560,925
1911–1912....	21,560,925	5,412,398	29,394	4,562,382	298,769	347,714	519,681	604,837	20,669,334
1912–1913....	20,669,334	6,993,602	203	4,999,937	333,802	440,826	581,305	639,109	20,668,160
Totals	84,549,151	25,228,461	181,289	17,485,927	1,268,468	1,801,539	1,844,591	3,194,284	84,364,092
Average....	21,137,288	6,307,115	45,323	4,371,482	317,117	450,385	461,148	798,571	21,091,023
1913–1914....	20,668,160	7,488,904	66,510	4,762,618	335,970	451,567	545,437	566,006	21,561,976

The foreign demand for Canadian distillery products is slightly greater than the average of the last four years, the quantities exported being as follows:—

	Proof Galls.
1909–1910	361,934
1910–1911	273,963
1911–1912	298,769
1912–1913	333,802
1913–1914	335,970

The following statement shows the entire quantities of spirits upon which duties were collected during the several Fiscal Years recited therein. To accord with the figures shown in Financial Statement No. 12, pages 22 and 23:—

Fiscal Years.	Canadian Spirits.		Imported Spirits used in Bonded Factories.	Total quantities upon which duty was collected.	Memorandum of Revenue accrued, including License Fees.
	Paid duty Ex-distillery.	Paid duty Ex-warehouse.			
	Pf. Gallons.	Pf. Gallons.	Pf. Gallons.	Pf. Gallons.	$
1909–1910	5,280	3,777,156	.....	3,782,436	7,169,760
1910–1911	7,058	4,146,452	151,387	4,304,897	7,913,376
1911–1912	9,317	4,534,785	27,597	4,571,699	8,667,666
1912–1913	2,508	4,999,937	.....	5,002,445	9,474.142
Totals	24,163	17,458,330	178,981	17,661.477	33,224,944
Average	6,041	4,364,582	44,746	4,415,369	8,306.236
1913–14	2,001	4,762,618	66,497	4,831,116	9,038,028

Malt

The following statement shows the transactions in Malt during the Fiscal Year ended March 31, 1914, and the four preceding Fiscal Years:—

Fiscal Years.	1	2	3	4	5	6	7	8	9
	In Warehouse at beginning of year, including transits.	Manufactured during the year.	Imported.	Increased by absorption.	Taken for consumption.	Exported.	Otherwise accounted for.	In Warehouse at end of year, including transits.	Memorandum of Revenue accrued, including License Fees.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	$
1909-1910	42,522,038	90,559,046	2,237,528	930,207	95,166,134	425,600	3,663,645	36,993,440	1,434,004
1910-1911	36,993,440	100,086,332	3,073,837	839,035	101,525,430	551,500	2,526,384	36,389,330	1,529,472
1911-1912	36,389,330	115,793,326	613,382	810,372	114,029,523	294,800	2,647,187	36,634,900	1,716,547
1912-1913	36,634,900	118,673,161	5,001,022	984,235	123,920,607	198,800	2,911,677	34,262,234	1,864,525
Totals	152,539,708	425,111,865	10,925,769	3,563,849	434,641,694	1,470,700	11,748,893	144,279,904	6,544,548
Average	38,134,927	106,277,966	2,731,442	890,962	108,660,423	367,675	2,937,223	36,069,976	1,636,137
1913-1914	34,262,234	135,740,168	10,263,724	736,800	133,794,639	161,820	4,894,662	40,151,805	2,012,301

TOBACCO

The following statement shows the transactions during the Fiscal Year ended March 31, 1914, and the four preceding Fiscal Years, respectively, in Tobacco, Snuff and Cigarettes.

Fiscal Years.	1	2	3	4	5	6	7	8	9	10	11
	In Warehouse at beginning of year, including transits.	Manufactured during the year.	Taken for consumption.	Exported.	Otherwise accounted for.	In Warehouse at end of year, including transits.	Raw Leaf taken for consumption.	Canada Twist taken for consumption.	Total Tobacco taken for consumption.	Other Materials taken for consumption.	Duty collected thereon including License Fees.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	$
1909-1910	1,170,325	19,462,170	19,293,891	29,250	50,421	1,258,933	13,729,875	20,673	33,044,439	1,269,027	6,067,599
1910-1911	1,258,933	20,355,883	20,641,947	37,071	8,110	927,688	15,012,704	19,181	35,673,832	1,123,383	6,784,140
1911-1912	927,688	23,557,145	23,749,939	5,790	10,338	718,766	17,491,373	17,098	41,258,410	1,372,144	8,130,776
1912-1913	718,766	25,703,480	25,287,332	4,519	26,630	1,103,765	19,232,231	17,535	44,537,098	1,615,596	9,192,181
Totals	4,075,712	89,078,678	88,973,109	76,630	95,499	4,009,152	65,466,183	74,487	154,513,779	5,380,150	30,174,696
Average	1,018,928	22,269,669	22,243,277	19,157	23,875	1,002,288	16,366,546	18,622	38,628,445	1,345,037	7,543,674
1913-1914	1,103,765	25,485,348	25,735,773	3,358	3,916	846,066	18,775 803	11,057	44,522,633	1,510,010	9,489,426

CIGARS:

The following statement shows the transactions in Cigars during the Fiscal Year ended March 31, 1914, and the four preceding Fiscal Years.

Fiscal Years.	1	2	3	4	5	6	7	8
	In Warehouse at beginning of year, including transits.	Manufactured during the year.	Assessments to bring production up to Standard.	Taken for consumption	Exported.	Otherwise accounted for.	In Warehouse at end of year, including transits.	Duty collected thereon, including License Fees.
	No.	No.	No.	No.	No.	No.	No.	$
1909-1910	27,271,840	204,285,596	36,795	205,820,851	19,000		25,754,380	432,539
1910-1911	25,754,380	227,498,932	10,295	227,585,692	17,000		25,660,915	470,197
1911-1912	25,660,915	248,906,934	128,468	252,718,242	15,000	22,625	21,940,450	517,646
1912-1913	21,940,450	297,762,383	383,922	294,772,933	10,100	22,500	25,281,222	602,269
Totals	100,627,585	978,453,845	559,480	980,897,718	61,100	45,125	98,636,967	2,022,651
Average	25,156,896	244,613,461	139,870	245,224,429	15,275	11,281	24,659,242	505,663
1913-1914	25,281,222	291,359,173	349,188	288,219,892	7,525		28,762,166	588,935

The revenue derived from goods manufactured in bond during the Fiscal Year ended March 31, 1914, and the four preceding Fiscal Years, was as follows:—

1909–1910	$77,811
1910–1911	77,840
1911–1912	84,720
1912–1913	91,460
1913–1914	92,160

Acetic Acid:—

The revenue derived from Acetic Acid during the Fiscal Year ended March 31, 1914 and the four preceding Fiscal Years, was as follows:—

1909–1910	$ 6,037
1910–1911	10,242
1911–1912	11,300
1912–1913	10,526
1913–1914	11,413

Inspection of Petroleum:—

The quantity of Petroleum and Naphtha inspected during the Fiscal Year was as follows:—

	Galls.
Petroleum	22,986,328·66
Naphtha	10,615,688·61
Total	33,602,017·27

Weights and Measures Gas and Electric Light:—

The usual special reports in relation to these services have been prepared, containing all statistical information.

The agregate revenue accrued from these services was $257,091.70, the cost of the three services being $258,004.73.

Prevention of Adulteration of Food and Agricultural Fertilizers:—

The usual supplementary report in relation to this service will be submitted, containing details of the work done and the report of the chief analyst.

Methylated Spirits:—

The quantity of methylated spirits manufactured during the Fiscal Year was 246,686·40 proof gallons, and the sales 250,868·86 proof gallons. A statement of details appears on pages 61, 62 and 121.

The price of this denatured alcohol is practically the actual cost of manufacture and is as follows:—

Grade No. 1, "Standard".—When consigned to points East of Toronto and West of Quebec, both inclusive, 65 cents per Imperial gallon; when consigned to points beyond Toronto and Quebec, 63 cents per Imperial gallon.

Grade No. 1, "Benzine".—When consigned as above 55 cents and 53 cents per Imperial gallon, respectively.

Grade No. 2, "Standard".—75 cents per Imperial gallon.

Grade No. 2, "Coloured".—60 cents per Imperial gallon.

APPENDIX A shows the consumption of, and revenue derived annually from spirits, tobacco and other goods subject to Excise, and of similar goods subject to duties of Customs, per head, of the population of the Dominion.

APPENDIX B contains, as usual, the details concerning illicit stills seized during the year.

APPENDIX C shows the amounts of Excise Revenue collected at each Out-Office and under various headings, separately.

I have the honour to be, sir,

Your obedient servant,

W. HIMSWORTH,

Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

APPENDIX A.

TABLE showing the Annual Consumption per head of the undermentioned articles paying Excise and Customs Duties, and the Revenue per head derived annually.

Years.	Dominion of Canada.									
	Quantity.					Duty.				
	Spirits.	Beer.	Wines.	Tobacco.	Petroleum.	Spirits.	Beer.	Wines.	Tobacco.	Petroleum.
	Galls.	Galls.	Galls.	Lbs.	Galls.	$	$	$	$	$
1869	1·124	2·290	·115	1·755	·575	·761	·092	·037	·193	041
1870	1·434	2·163	·195	2·190	1·103	·962	·085	·049	·259	·061
1871	1·578	2·490	·259	2·052	1·591	1·059	·095	·056	·336	·077
1872	1·723	2 774	·257	2·481	1·302	1·160	·108	·070	·422	·076
1873	1·682	3·188	·238	1·999	1·387	1·135	·120	·066	·350	·084
1874	1·994	3·012	·288	2·566	1 618	1·363	·119	·086	·442	·103
1875	1·394	3·091	·149	1·995	1·589	1·127	·114	·069	·428	·098
1876	1·204	2·454	·177	2·316	1·360	1·182	·098	·075	·513	·105
1877	·975	2·322	·096	2·051	1·103	·949	·109	·057	·446	·084
1878	·960	2·169	·096	1·976	.....	·927	·147	·052	·439	...
1879	1·131	2·209	104	1·954	.....	1·005	·125	·057	·449	....
1880	·715	2·248	·077	1·036	.....	·772	·081	·055	428	....
1881	·922	2·293	·099	2 935	.....	·990	·081	·073	·443	.....
1882	1·009	2·747	·120	2·150	.....	1·084	·098	·092	·485	.....
1883	1·090	2·882	·135	2·280	.....	1·186	·103	·097	·473	.....
1884	·988	2·924	·117	2·476	.....	1·074	·104	·082	·365	.....
1885	1·126	2·639	·109	2·623	.....	1·198	·111	074	·393	.....
1886	·711	2·839	·110	2·052	.....	1·007	·091	·674	·502	.....
1887	·746	3·084	·095	2·062	.....	1·045	·100	·066	·514	.....
1888	·645	3·247	·094	2·093	.....	·944	·110	·066	·509	.....
1889	·776	3·263	·097	1·953	.....	1·107	·114	·068	·529	...
1890	·883	3·360	·104	2·043	.....	1·257	·121	·072	·539	...
1891	·745	3·790	·111	2·292	.....	1·094	·137	·080	·590	.....
1892	·701	3·516	·101	2·291	.....	1·156	·211	·075	·680	.....
1893	·740	3·485	·094	2 314	.....	1·235	·218	·070	·691	...
1894	·742	3·722	·089	2·264	.....	1·235	·205	·060	·683	.....
1895	666	3·471	·090	2·163	.....	1·124	·161	·056	·645	....
1896	·623	3·528	·070	2·120	.....	1·159	·164	·047	·639	.....
1897	·723	3 469	·084	2·243	.....	1·341	·213	·041	·671	.....
1898	·536	3 808	·082	2·358	.....	1·306	·126	·041	·615	.....
1899	·661	3·995	·086	2·174	.....	1·367	·174	·045	·841	.....
1900	·701	4·364	·085	2·300	.....	1·455	·185	·044	·853	....
1901	·757	4·680	·099	2·375	.....	1·574	·195	·047	·864	.....
1902	·786	5·035	·090	2·371	.....	1·631	·211	·048	·902	.....
1903	·848	4·592	·094	2·483	.....	1·766	·200	·049	·967	....
1904	·917	4·739	·092	2 664	.....	1·913	·217	·049	1·005	.....
1905	·895	5·123	·093	2·768	.....	1·898	·214	·049	1·036	.....
1906	·898	5·484	·095	2·898	.....	1·879	·238	·052	1·100	.....
*1907 (nine months)	·977	5·765	·095	3·048	.....	2·035	·257	·054	1·317	.....
1908	·939	6·146	·102	3·066	.....	1·965	·268	·057	1·194	.....
1909	·860	5·708	·091	3·105	.....	1·794	·241	·050	1·101	.....
1910	·883	5·713	·105	3·183	.....	1·843	·242	·057	1·059	.....
1911	·948	5·999	·114	3·323	.....	1·988	·257	·059	1·157	.....
1912	1·030	6 598	·114	3·679	.....	2·170	·288	·063	1·336	.....
1913	1·112	7·005	·131	3·818	.....	2·340	·320	·076	1·462	.....
914	1·061	7·200	·124	3·711	.....	2·249	·328	·069	1·438	.....
Average	·969	3·840	·119	2·421	.....	1·365	·165	·062	·702	.....

APPENDIX B.

STATEMENT of Seizures of Illicit Manufactures for the year ended March 31, 1914.

Division.	No.	Date.	Names.	Residence.	Schedule Value.	Remarks.
		1913			$ cts.	
Moosejaw	2	May 19	Franz Frank	Regina		Fine $100 imposed and paid.
Quebec	639	July 15	Alfred Morin	Parish of Woburn, County of Beauce	8 00	Fine $100 imposed and paid.
"	642	Sept. 16	F. Guérard	Parish of Fortierville, County of Lotbinière	24 00	Fine $100 imposed and paid.
"	643	Sept. 16	A. Marcoux	Parish of Frontenac, County of Lotbinière	20 00	
		1914				
Montreal	1,253	January 3	S. Lenetsky	Montreal	39 00	Fine $100 imposed and paid.

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1914.

W. HIMSWORTH,

Deputy Minister.

APPENDIX C.

STATEMENT showing the amount of Excise and other Revenues collected at each of the undermentioned Out-Offices during the year ended March 31, 1914.

Divisions.	Out-Offices	Licenses.	Spirits.	Malt. Liquor.	Malt.	Tobacco.	Cigars.	Manufactures in Bond.	Other Receipts.	Electric Light Inspection Fees.	Totals.
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Belleville	Deseronto										
	Picton										
	Trenton	50 00	10,084 89								10,134 89
Brantford	Delhi										
	Ingersoll										
	Norwich	50 00						2,686 98	600 00		3,336 98
	Paris										
	Port Dover										
	Port Rowan										
	Simcoe	125 00	14,581 21			50 68	120 25		40 19		14,917 63
	St. George										
	Tavistock										
	Waterford										
	Woodstock	100 00			582 00	1,012 76	332 10		1,566 20		3,593 06
Guelph	Berlin	300 00	38,780 32		26,722 68	2,784 18	1,971 89		3,313 06		73,872 13
	Galt	100 00			1,094 16						1,194 16
	New Hamburg	50 00									50 00
	Preston	150 00			3,765 00	1,345 12	566 10		1,762 22		7,588 44
	Waterloo	550 00	277,645 37		54,492 57	1,703 80	1,951 00		3,658 74		340,001 48
Hamilton	Dundas	200 00			80,419 65						80,619 65
Kingston	Napanee								240 68		240 68
London	Petrolea	52 00	8,155 84						26 88		8,234 72
	Sarnia	101 00	30,947 56						45 52		31,094 08
	St. Thomas	200 00		3,000 00	8,398 02	3,419 60					15,017 62
	Strathroy								556 43		556 43
Ottawa	Buckingham	50 00	10,350 16								10,100 16
	Ville-Marie	50 00	3,326 33								3,376 33
Owen Sound	Collingwood										
	Kincardine										
	Meaford										
	Newstadt	100 00			3,110 70						3,210 70
	Walkerton	100 00			4,462 96			395 43			4,958 39
	Wiarton										

Perth	Arnprior	100 00	16,974 49								17,074 49
	Eganville	50 00	6,723 01								6,773 01
	Haileybury										
	Mattawa	50 00	3,627 56								3,677 56
	New Liskeard	50 00	15,569 04								15,619 04
	North Bay	150 00	21,794 15		4,024 50						25,968 65
	North Cobalt	50 00				191 80	166 65				407 85
	Pembrooke	112 50	12,163 34			559 46	59 68				12,894 98
	Renfrew										
	Sturgeon Falls	50 00	18,791 48								18,841 48
	Sudbury	225 00	67,684 12		35,887 80	427 20					104,224 12
Peterborough	Cobourg	50 00	5,136 37								5,186 37
	Lindsay	50 00			2,376 00						2,426 00
	Port Hope	50 00	4,298 81								4,348 81
Port Arthur	Dryden	50 00	1,653 86								1,703 86
	Fort Frances	50 00	5,257 41								5,307 41
	Fort William	150 00	19,405 42		18,195 00						67,750 42
	Kenora	125 00	23,685 42		2,946 51	91 00	46 60				26,894 53
	Rainy River	50 00	10,271 55								10,321 55
	Wabigoon										
Prescott	Brockville	200 00	7,452 12		2,473 89	1,923 18	1,361 30		220 68		13,631 17
	Cornwall	50 00			37,350 00				170 25		37,570 25
Ste. Catharines	Beamsville										
	Crystal Beach										
	Dunville	50 00				129 92	117 50				297 42
	Fort Erie										
	Grimsby										
	Humberstone	100 00				206 36	463 50				769 86
	Merritton										
	Niagara Falls	75 00				444 88	558 40		582 08		1,660 36
	Niagara-on-the-Lake										
	Port Colborne	50 00			10,045 50						10,095 50
	Port Dalhousie										
	Queenstown										
	Thorold										
	Welland	25 00					24 50				49 50
Stratford	Goderich	75 00	2,741 05								2,816 05
	Listowell	100 00			3,148 50	2,084 60	1,345 60		318 82		6,997 52
	Palmerston										
	St. Marys	50 00				202 58	118 75				371 33
	Seaforth								29 14		29 14
Toronto	Barrie	100 00			1,084 83						1,184 83
	Hornby	100 00			2,522 79						2,622 79
	Orillia	100 00			346 50						446 50
	Sault. Ste. Marie	350 00	36,397 51		17,350 28	770 84	16 69 | 1,389 90 /				56,275 22
	Whitby	50 00	5,651 21								5,701 21
Windsor	Chatham	200 00	37,703 80			756 94	825 25				39,485 99
	Kingsville	125 00				7,449 35					7,574 35
	Leamington	175 00				225 40	210 30	6,273 23	600 00		7,483 93
	Wallaceburg	1 00									1 00

APPENDIX C.—*Continued.*

STATEMENT showing the amount of Excise and other Revenues collected at each of the undermentioned Out-Offices, during the year March, 31, 1914.—*Continued.*

Divisions.	Out-Offices.	Licenses.	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Manufactures in Bond.	Other receipts.	Electric Light Inspection Fees.	Totals.
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Joliette	Berthierville	250 00	4,343 27		205 56				12,450 00	512 00	17,760 83
	L'Assomption	25 00				24 50					49 50
	L'Epiphanie	200 00				4,036 82	5,961 50				10,198 32
	St. Alexis	50 00				60 50					110 50
	St. Esprit	50 00				462 30					512 30
	St. Jacques	125 00				1,097 25					1,222 25
	St. Lin	100 00				3,921 28	1,322 00				5,343 28
	St. Rock	50 00				330 00					380 00
	Rawdon	25 00				35 00	48 60				108 60
Montreal	Chambly Bassin										
	Lachine										
	St. Jerôme	100 00	20,244 31								20,344 31
	St. Laurent										
	Ste. Thérèse										
	Valleyfield	200 00	108,931 27		9,256 20	390 88	557 85				119,336 20
Quebec	Chicoutimi										
	Fraserville										
	Gaspé		1,749 81								1,749 81
	Levis		61,776 48			15,170 40	6,634 35				83,581 23
	Roberval										
St. Hyacinthe	Farnham	100 00				6,374 70	960 50				7,435 20
	L'Ange-Gardien	50 00					31 30				81 30
	St. Césaire	75 00									75 00
	St. John	200 00	16,661 04			15 40	103 50	1,795 52			18,775 46
	St. Ours	50 00				376 75					426 75
	Sorel	200 00	23,811 44								24,011 44
	Victoriaville	50 00	26,951 98						363 52		27,365 50
Sherbrooke	Granby	225 00				320 191 92	6,909 14		331 17		327,657 23
Three Rivers	Grand Mère	50 00	978 68								1,028 68
	La Tuque	50 00	978 09								1,028 09
	Louiseville	50 00	6,302 73								6,352 73
	St. Boniface	75 00				4,217 60					4,292 60
	St. Tite										
	Shawinigan	50 00					81 00				134 00

St. John	Bathurst										
	Campobello										
	Chatham										
	Clair										
	Edmundston										
	Fredericton										
	Moncton										
	Newcastle										
	Sackville										
	St. Stephens	50 00	1,174 36			218 00					1,442 36
	Sussex										
Halifax	Amherst	50 00				671 75					721 75
	Lunenburg										
	Parrsborough										
	Truro	50 00				1,141 55					1,191 55
	Weymouth										
	Windsor										
	Yarmouth	50 00				399 56	641 25				1,090 81
Pictou	Antigonish										
	New Glasgow										
	North Sidney										
	Sidney	250 00	8,289 41				211 26				8,750 67
Charlottetown	Georgetown										
	Souris										
	Summerside										
	Alberton										
	Cardigan										
	Crapaud										
	Murray Harbour										
	Montague										
	St. Peters										
	Viguish										
Winnipeg	Brandon	350 00	66,935 38	72 50	14 297 85	3,608 36	2,110 58				87,374 67
	Dauphin	75 00	10,123 26								10,198 26
	Morden	100 00	4,876 27								4,976 27
	Portage la Prairie	150 00	21,790 87			299 60	139 90				22,380 37
	Selkirk	50 00	3,441 84								3,491 84
	Virden	50 00	7,011 52								7,061 52
Calgary	Blairmore	50 00			367 47	15 00					432 47
	Camrose	50 00	15,257 58								15,307 58
	Edmonton	975 00	162,378 28	6,903 00	26,288 32	17,977 12	5,252 68	1,577 68	5,977 01		227,329 09
	Fort Saskatchewan										
	High River	50 00	1,181 33								1,231 33
	Lacombe	50 00	15,205 29								15,255 29
	Lethbridge	300 00	25,994 93	27,935 90	29,275 47	1,444 80	532 20				85,483 30
	Medicine Hat	175 00	12,991 79			810 52	266 40				14,243 71
	Pincher Creek	50 00	464 22								514 22
	Red Deer										
	Stettler	100 00	511 78			5,057 36	1,647 10				7,316 24
	Strathcona										

APPENDIX C.—*Concluded.*

STATEMENT showing the amount of Excise and other Revenues collected at each of the undermentioned Out-Offices during the year ended March 31, 1914.—*Concluded.*

Divisions.	Out-Offices.	Licenses.	Spirits	Malt Liquor.	Malt.	Tobacco.	Cigars.	Manufactures in Bond.	Other Receipts.	Electric Light Inspection Fees	Totals.
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Calgary—*Con.*	Taber	50 00	5,839 44								5,889 44
	Vermilion	50 00	1,766 51								1,816 51
	Wetaskiwin	50 00	8,834 95								8,884 95
Moosejaw	Estevan	50 00	7,548 32								7,598 32
	Gull Lake	25 00	1,019 30								1,044 30
	Maple Creek										
	Melville	50 00	10,739 87								10,789 87
	North Battleford	50 00				709 38	184 00		2 88		946 26
	Prince Albert	200 00	23,313 73		5,607 00	400 40	129 60				29,650 73
	Regina	350 00	57,651 77		7,028 48	273 00	169 75		100 07		65,573 07
	Rosthern	50 00	6,474 11								6,524 11
	Saskatoon	350 00	45,829 62	7,668 50	16,531 59	1,165 64	534 86		64 48		72,144 69
	Swift Current	50 00	21,295 63						3 60		21,349 23
	Weyburn	50 00	10,628 81						3 60		10,682 41
Vancouver	Anaconda	50 00			98 50						148 50
	Cranbrook	200 00	15,380 50		660 00						16,240 50
	Fernie	200 00	19,998 92		18,010 10	497 56	287 30				38,993 88
	Fort George										
	Golden	50 00	8,289 78								8,339 78
	Grand Forks	100 00			330 00						430 00
	Greenwood	50 00	9,243 96								9,293 96
	Kamloops	200 00	8,079 07		2,200 34	1,205 54	459 10				12,144 05
	Kelowna	50 00				908 88	1,933 90				2,892 78
	Merritt	50 00			276 98						326 98
	Michel	150 00	9,275 10		3,399 75						12,824 85
	Moyie										
	Nelson	250 00	31,003 01		3,705 00	2,446 61	909 61				38,314 26
	New Westminster	275 00	7,056 00	1,375 50	6,701 10	8,976 24	3,010 00				27,393 84
	Phoenix	50 00			3,600 00						3,650 00
	Prince Rupert	200 00	8,341 05			1,184 12	409 10				10,134 27
	Princeton	50 00			1,005 00						1,055 00
	Revelstoke	200 00	13,462 89		1,534 08	716 52	343 00				16,256 49
	Rossland	150 00	6,890 24		1,777 95	1,359 94	287 65				10,465 78

	Trail	50 00			3,030 60						3,080 60
	Vernon	200 00	5,539 69		414 82	136 64	55 04				6,346 19
Victoria	Cumberland	50 00			1,800 00						1,850 00
	Ladysmith										
	Nanaimo	450 00	5,574 97	668 77	8,922 85	4,572 54	1,378 40				21,567 53
	Sidney										
		15,541 50	1,726,287 85	47,624 17	487,124 85	438,681 61	55,150 78	12,728 84	33,027 52	512 00	2,816,679 12

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

FINANCIAL RETURNS, 1913-1914

DR. No. 1.—GENERAL REVENUES ACCOUNT FOR THE YEAR ENDED MARCH 31, 1914. CR.

Memo of Refunds deducted below.	Amounts deposited to the credit of the Receiver General.	Balances due March 31, 1914.	Totals.	Services.	Revenues of previous years not collected April 1, 1913.	Revenues accrued 1913-14.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.
152,686 12	21,489,949 57	20,212 35	21,510,161 92	Excise and Seizures, per Statement No. 3	21,294 47	21,488,867 45	21,510,161 92
6 35	113,862 40	100 57	113,962 97	Weights and Measures, per Statement Nos. 18 A and 18 B	257 67	113,705 30	113,962 97
28 00	62,909 90	.....	62,909 90	Gas Inspection, per Statement No. 20	.....	62,909 90	62,909 90
.....	80,476 50	.....	80,476 50	Electric Light Inspection, per Statement No. 22	.....	80,476 50	80,476 50
.....	9,238 75	.....	9,238 75	Law Stamps, per Statement No. 8	.....	9,238 75	9,238 75
.....	.....	45 04	45 04	Bill Stamps, per Statement No. 7	45 04	.....	45 04
55 00	5,523 06	.....	5,523 06	Sundry Minor Revenues, per Statement No. 9	.....	5,523 06	5,523 06
.....	116,208 38	.....	116,208 38	Methylated Spirits, per Statement No. 25	.....	116,208 38	116,208 38
.....	964 00	1,833 62	2,797 62	Ferry Licenses Revenue, per Statement No. 11	1,833 62	964 00	2,797 62
152,775 47	21,879,132 56	22,191 58	21,901,324 14		23,430 80	21,877,893 34	21,901,324 14
.....	152,775 47	.....	152,775 47	.....Less—Refunds as per Statement No. 15	.....	152,775 47	152,775 47
.....	21,726,357 09	.....	21,748,548 67	.....Totals	.....	21,725,117 87	21,748,548 67

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

DR. No. 2.—GENERAL EXPENDITURES ACCOUNT FOR

Balance due to Collectors, &c., April 1, 1913.	Expenditures Authorized by the Department.			Balances due by Collectors, &c., March 31, 1914.	Totals.	Services.
	Salaries.	Contingencies.	Seizures.			
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	
49 08	485,409 82	267,221 66	234 88	343 98	753,259 42	Excise and Seizures, per Statement No. 4
			1,474 09		1,474 09	Excise Seizures, distributed per Appendix B, Statement No. 2
	1,954 05	8,424 73			10,378 78	Preventive Service, per Statement No. 5
	3,900 69	25,053 11			28,953 80	Adulteration of Food, per Statement No. 6 and Appendix B, Statement No. 4
		1,423 50			1,423 50	Sundry Minor Expenditures, per Statement No. 10
	106,530 14	8,972 77		16 66	115,519 57	Departmental Expenditures, per Statement No. 16
	83,414 36	61,575 61		3 70	144,993 67	Weights and Measures, per Statement No. 19 A
	43,815 12	19,064 35		212 88	63,092 35	Gas Inspection, per Statement No. 21
	20,330 37	29,804 92			50,135 29	Electric Light Inspection, per Statement No. 23
		96,128 20			96,128 20	Methylated Spirits, per Statement No. 25
49 08	745,354 55	517,668 85	1,708 97	577 22	1,265,358 67	Totals

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 12

THE YEAR ENDED MARCH 31, 1914. CR.

Balances due by Collectors, &c., April 1, 1913.	Amounts disbursed by the Receiver General, on requisition of the Department.	Deductions from Salaries for				Annuities.	Balances due to Collectors, &c., March 31, 1914.	Totals.
		Superannuation.	Insurance.	Retirement.	Guarantee			
$ cts.	$ cts	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
343 98	730,955 54	3,885 83	2,126 66	13,350 70	1,350 54	140 40	1,105 77	753,259 42
.....	1,474 09	....	....	....	.....	.....	.....	1,474 09
....	10,375 90	....	....	.....	2 88	....	.. ..	10,378 78
....	28,923 81	13 92	....	....	16 07	....	... .	28,953 80
....	1,423 50	.....	.....	....	.....	.....	.....	1,423 50
16 66	111,292 76	532 75	445 92	3,231 48	.....	....	.....	115,519 57
3 70	144,546 77	188 50	66 00	.....	188 70	.....	....	144,993 67
212 88	62,613 01	33 22	.....	92 47	140 77	.....	... .	63,092 35
....	50,075 20	....	....	7 47	52 62	.....	.....	50,135 29
.....	96,128 20	.....	....	.....	.....	..... .	.....	96,128 20
577 22	1,237,808 78	4,654 22	2,638 58	16,682 12	1,751 58	140 40	1,105 77	1,265,358 67

W. HIMSWORTH,
Deputy Minister.

EXCISE

No. 3.—Collection Divisions

Balances due April 1, 1913.	Amount accrued during the Year, including License Fees.							
	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Acetic Acid.	Bonded Manufactures.	Seizures.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
.....	109,512 37	50 00	12,920 76	1,343 84	465 80	.....	1,964 85	.....
112 61	45,216 40	100 00	9,513 50	15,261 26	8,033 95	.....	2,736 98	.....
.....	337,816 19	300 00	104,240 00	7,225 26	5,500 19	.....	.....	.....
.....	339,017 74	100 00	74,877 97	676,434 86	34,272 18	25 00	5,228 26	.....
.....	66,475 25	100 00	6,209 27	14,317 38	5,928 00	.....	3,494 96	.....
.....	86,383 93	200 00	82,629 68	222,866 70	83,824 71	.....	.....	.....
.....	309,316 70	100 00	18,807 27	1,173 04	1,279 35	.....	533 95	.....
.....	.....	200 00	9,886 76	4,742 08	1,906 65	.....	.....	.....
.....	210,262 52	100 00	40,012 30	1,282 76	589 53	.....	100 00	.....
.....	9,527 93	100 00	11,055 26	563 36	274 55	.....	.....	.....
.....	139,562 02	150 00	31,654 44	91 00	71 60	.....	.....	.....
.....	179,979 11	150 00	51,873 92	1,946 18	1,461 30	.....	300 00	.....
.....	15,403 73	100 00	25,649 13	3,104 08	3,630 15	.....	.....	.....
.....	28,447 26	100 00	6,982 50	9,594 73	3,775 33	.....	25 00	.....
.....	1,111,943 07	575 00	346,628 27	144,909 09	50,503 75	.....	35,663 50	50 00
.....	519,190 94	515 00	60,678 80	33,998 37	12,368 44	.....	6,773 23	.....
522 89	.....	.....	.....	.....	.....	.....	.....	.....
635 50	3,508,055 16	2,940 00	893,619 83	1,138,853 99	213,885 48	25 00	56,820 73	50 00
1,036 08	76,829 81	.....	205 52	12,637 31	11,225 50	.....	.....	.....
1,949 20	2,176,835 57	15,759 50	442,166 91	7,567,858 20	276,275 48	11,387 59	10,309 38	415 45
254 75	453,340 92	150 00	42,530 74	249,968 75	14,042 27	.....	3,583 24	447 50
.....	141,638 64	50 00	10,977 30	354,034 08	19,944 71	.....	300 00	50 00
.....	130,767 13	.....	2,061 00	25,641 59	1,347 30	.....	2,405 21	.....
54 27	67,887 96	50 00	972 00	6,458 96	1,662 00	.....	.....	.....
3,295 57	.....	.....	.....	.....	.....	.....	.....	.....
6,589 87	3,047,300 03	16,009 50	498,913 47	8,216,598 89	324,497 26	11,387 59	16,597 83	912 95
.....	165,849 65	100 00	21,678 18	5,004 32	6,893 80	.....	2,987 37	165 00
1,442 62	.....	.....	.....	.....	.....	.....	.....	.....
1,442 62	165,849 65	100 00	21,678 18	5,004 32	6,893 80	.....	2,987 37	165 00
.....	46,524 26	150 00	53,112 00	3,421 90	1,830 99	.....	.....	.....
.....	8,289 41	.....	.....	2,806 26	606 50	.....	.....	.....
5,860 50	.....	.....	.....	.....	.....	.....	.....	.....
5,860 50	54,813 67	150 00	53,112 00	6,228 16	2,437 49	.....	.....	.....
.....	464 39	.....	.....	12,449 33	.....	.....	.....	.....
.....	1,055,289 75	1,503 70	184,652 62	27,832 22	11,332 60	.....	12,275 13	.....
5,563 99	400,865 83	58,006 80	155,256 17	28,555 06	9,852 61	.....	1,652 68	.....
.....	232,343 28	7,868 50	36,496 07	2,904 02	1,540 10	.....	.....	100 00

SESSIONAL PAPER No. 12

1913–1914.

IN ACCOUNT WITH REVENUES.

Sundries.	Total Duties accrued.	Total Debits.	Divisions.	Deposited to Credit of Receiver General.	Balances due March 31, 1914.	Total Credits.
$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.
2,803 89	129,061 51	129,061 51	Belleville	129,061 51		129,061 51
700 00	81,562 09	81,674 70	Brantford	81,562 09	112 61	81,674 70
3,046 06	458,127 70	458,127 70	Guelph	458,127 70		458,127 70
2,206 75	1,132,162 76	1,132,162 76	Hamiltou	1,132,162 76		1,132,162 76
837 00	97,361 86	97,361 86	Kingston	97,361 86		97,361 86
377 00	476,282 02	476,282 02	London	476,282 02		476,282 02
601 00	331,811 31	331,811 31	Ottawa	331,811 31		331,811 31
1 00	16,736 49	16,736 49	Owen Sound	16,736 49		16,736 49
1,127 00	253,474 11	253,474 11	Perth	253,474 11		253,474 11
101 10	21,622 20	21,622 20	Peterborough	21,622 20		21,622 20
450 00	171,979 06	171,979 06	Port Arthur	171,979 06		171,979 06
1,406 00	237,116 51	237,116 51	Prescott	237,116 51		237,116 51
75 50	47,962 59	47,962 59	St. Catharines	47,962 59		47,962 59
172 00	49,096 82	49,096 82	Stratford	49,096 82		49,096 82
26,069 55	1,716,342 23	1,716,342 23	Toronto	1,716,342 23		1,716,342 23
25,064 04	658,588 82	658,588 82	Windsor	658,588 82		658 588 82
		522 89	Suspense Account		522 89	522 89
65,037 89	5,879,288 08	5,879,923 58	*Ontario*	5,879,288 08	635 50	5,879,923 58
12,576 60	113,474 74	114,510 82	Joliette	113,474 74	1,036 08	114,510 82
4,266 78	10,505,274 86	10,507,224 06	Montreal	10,506,102 33	1,121 73	10,507,224 06
1,425 38	765,488 80	765,743 55	Quebec	765,743 55		765,743 55
302 00	527,296 73	527,296 73	Sherbrooke	527,296 73		527,296 73
770 00	162,992 23	162,992 23	St. Hyacinthe	162,992 23		162,992 23
350 00	77,380 92	77,435 19	Three Rivers	77,380 92	54 27	77,435 19
		3,295 57	Suspense Account		3,295 57	3,295 57
19,690 76	12,151,908 28	12,158,498 15	*Quebec*	12,152.990 50	5,507 65	12,158,498 15
909 50	203,587 82	203,587 82	St. John	203,587 82		203,587 82
		1,442 62	Suspense Account		1,442 62	1,442 62
909 50	203,587 82	205,030 44	*New Brunswick*	203,587 82	1,442 62	205,030 44
300 00	105,339 15	105,339 15	Halifax	105,339 15		105,339 15
200 00	11,902 17	11,902 17	Pictou	11,902 17		11,902 17
		5,860 50	Suspense Account		5,860 50	5,860 50
500 00	117,241 32	123,101 82	*Nova Scotia*	117,241 32	5,860 50	123,101 82
	12,913 72	12,913 72	*Charlottetown, P.E.I.*	12,913 72		12,913 72
2,485 00	1,295,371 02	1,295,371 02	*Winnipeg—Manitoba*	1,294,371 02		1,295,371 02
1,917 65	656,106 80	661,670 79	*Calgary—Alberta*	656,106 80	5,563 99	661,670 79
925 00	282,176 97	282,176 97	*Moose Jaw, Saskatchewan*	282,176 97		282,176 97

EXCISE

No. 3.—Collection Divisions

Balances due April 1, 1913.	Amount accrued during the Year, including License Fees.							
	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Acetic Acid.	Bonded Manufactures.	Seizures.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
1,201 89	405,818 11	66,913 80	119,832 71	31,697 62	13,815 55	.....	1,826 64	207 00
0 10	159,770 37	7,874 27	47,661 76	19,302 32	4,680 50	.....	.....	.....
1,201 99	565,588 48	74,787 57	167,494 47	50,999 94	18,496 05	.....	1,826 64	207 00
....	7,457 83	50 00	1,077 96	.....	.....	.....	.....	.....
21,294 47	9,038,028 07	161,416 07	2,012,300 77	9,489,425 93	588,935 39	11,412 59	92,160 38	1,434 95
....	31,097 36	.....	118,968 77	2,251 89	8 10	.....	.....	.....
.....	9,006,930 71	161,416 07	1,893,332 00	9,487,174 04	588,927 29	11,412 59	92,160 38	1,434 95

Inland Revenue Department,
Ottawa, June 1, 1914.

SESSIONAL PAPER No. 12

1913-1914.—*Concluded.*

IN ACCOUNT WITH REVENUES.—*Concluded.*

Sundries.	Total Duties accrued.	Total Debits.	Divisions.	Deposited to Credit of Receiver General.	Balances due March 31, 1914.	Total Credits.
$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.
1,775 00	641,885 93	643,087 82	Vancouver	641,885 73	1,202 09	643,087 82
412 50	239,701 72	239,701 82	Victoria	239,701 82	.....	239,701 82
2,187 50	881,587 65	882,789 64	*British Columbia*	881,587 55	1,202 09	882,789 64
100 00	8,685 79	8,685 79	*Yukon*	8,685 79	.....	8,685 79
93,753 30	21,488,867 45	21,510,161 92	Totals	21,489,949 57	20,212 35	21,510,161 92
360 00	152,686 12	.....	Less refunds as per statement No. 16	.....	.....	.....
93,393 30	21,336,181 33	.....	Net Revenue	.....	.....	.....

W. HIMSWORTH,
Deputy Minister.

EXCISE

DR. No. 4.—COLLECTION DIVISIONS

Balances due by Collectors, April 1, 1913.	Amounts received from Department to meet Expenditures.	Deductions from Salaries for					Balances due to Collectors, March 31, 1914.	Totals.	Divisions.
		Superannuation.	Insurance.	Annuities.	Retirement.	Guarantee.			
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	
43 98	16,230 89	96 36	113 62	.....	390 28	34 20	.....	16,909 33	Belleville.
.....	9,130 67	92 40	.....	.....	236 70	22 32	.....	9,482 09	Brantford
.....	24,947 91	325 50	.....	.....	295 33	50 40	.....	25,619 14	Guelph
.....	27,366 17	139 32	153 94	.....	811 77	78 12	.....	28,549 32	Hamilton
.....	7,810 33	81 36	.....	.....	122 32	23 04	.....	8,037 05	Kingston.
.....	23,617 47	216 45	95 46	.....	408 29	53 45	.....	24,391 12	London.
.....	10,665 66	24 00	.....	.....	337 59	28 08	.....	11,055 33	Ottawa
.....	7,445 79	55 92	.....	.....	120 00	15 84	.....	7,637 55	Owen Sound
.....	11,961 72	.....	63 36	.....	383 39	32 88	.....	12,441 35	Perth
.....	3,479 36	18 96	.....	.....	54 96	6 48	.....	3,559 76	Peterborough.
.....	5,141 30	.....	.....	.....	222 90	12 24	.....	5,376 44	Port Arthur
.....	13,517 17	37 92	44 64	140 40	490 82	35 52	.....	14,266 47	Prescott.
.....	6,802 37	75 60	.....	.....	129 96	15 12	.....	7,023 05	St. Catharines
.....	7,275 29	8 00	231 52	.....	236 66	24 28	.....	7,775 75	Stratford.
.....	52,192 03	385 23	301 56	.....	1,451 98	129 12	.....	54,459 92	Toronto.
.....	35,148 78	240 24	265 29	.....	827 99	94 93	49 08	36,626 22	Windsor
.....	9,224 41	88 92	.....	.....	.....	27 00	.....	9,340 33	District Inspectors
43 98	271,957 32	1,886 18	1,271 30	140 40	6,515 94	683 02	49 08	282,550 22	*Ontario*
.....	14,367 31	38 43	35 04	.....	436 79	31 56	.....	14,909 13	Joliette
.....	67,576 03	547 63	215 60	.....	1,777 49	174 72	1,056 69	71,348 16	Montreal.
.....	29,434 66	179 17	36 24	.....	541 52	48 24	.....	30,239 83	Quebec.
.....	15,504 23	37 92	275 06	.....	552 46	34 08	.....	16,403 75	St. Hyacinthe
.....	9,205 73	75 84	.....	.....	241 65	24 48	.....	9,547 70	Sherbrooke.
.....	5,048 17	51 84	.....	.....	57 36	11 88	.....	5,169 25	Three Rivers.
.....	5,514 43	50 49	.....	.....	129 96	15 75	.....	5,710 63	District Inspectors
.....	146,650 56	981 32	561 94	.....	3,737 23	340 71	1,056 69	153,328 45	*Quebec*
.....	12,488 63	134 38	.....	.....	267 98	32 64	.....	12,923 63	St. John
.....	2,530 28	4 83	.....	.....	91 63	8 25	.....	2,634 99	District Inspectors
.....	15,018 91	139 21	.....	.....	359 61	40 89	.....	15,558 62	*New Brunswick*
.....	13,245 95	225 78	.....	.....	22 44	34 74	.....	13,528 91	Halifax
.....	4,376 74	42 96	.....	.....	71 35	9 48	.....	4,503 53	Pictou
.....	17,622 69	268 74	.....	.....	96 79	44 22	.....	18,032 44	*Nova Scotia*
100 00	2,468 31	.....	.....	.....	86 43	7 56	.....	2,662 30	*Charlottetown, P.E.I.*
200 00	25,381 72	144 84	77 52	.....	782 30	63 36	.....	26,649 74	Winnipeg
.....	15,063 50	.....	.....	.....	369 68	23 22	.....	15,456 40	Calgary
.....	7,042 13	18 81	.....	.....	200 90	16 52	.....	7,278 36	Moose Jaw
.....	7,715 87	49 44	.....	.....	.....	18 00	.....	7,783 31	District Inspectors
200 00	55,203 22	213 09	77 52	.....	1,352 88	121 10	.....	57,167 81	*Manitoba, Alberta and Saskatchewan*

SESSIONAL PAPER No. 12

1913–1914.

IN ACCOUNT WITH EXPENDITURES. CR.

Balances due to Collectors, April 1, 1913.	Expenditures authorized by the Department.						Balances due by Collectors, March 31, 1814.	Totals.
	Salaries.	Seizures Expenditures.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
$ cts.	$ cts.	$ cts	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
.....	14,312 09	... ...	956 25	....	1,480 00	117 01	43 98	16,909 33
.....	8,237 22	....	778 31	.....	304 73	161 83	....	9,482 09
....	23,877 50	... .	777 28	135 00	464 74	364 62	..... .	25,619 14
.....	27,762 14	..... .	464 09	.....	71 05	252 04	.. ..	28,549 32
... .	7,524 80	. .....	400 00	....	38 70	73 55	.....	8,037 05
... .	21,595 27	....	2,008 14	.....	290 80	496 91	.....	24,391 12
.....	9,457 26	1 35	1,385 05	.....	99 05	112 62	.....	11,055 33
.....	6,999 96	.....	300 00	....	235 30	102 29	..... .	7,637 55
....	9,874 54	....	1,161 66	455 66	661 80	287 69	....	12,441 35
..... .	2,019 84	.....	1,260 00	.....	175 58	74 34	.....	3,559 76
.....	4,462 38	.....	200 00	..... .	488 90	225 16	....	5,376 44
....	12,723 74	.....	885 23	.....	41 35	616 15	.. ..	14,266 47
.....	6,699 72	.....	60 00	60 00	110 10	93 23	.....	7,023 05
....	7,637 43	.....	405 00	....	206 15	127 17	....	7,775 75
....	49,417 03	... .	3,785 28	... .	727 40	530 21	....	54,459 92
49 08	33,894 59	.. ..	1,750 00	.....	388 84	543 71	... .	36,626 22
.....	7,249 86	.....	48 00	250 00	1,302 91	489 56	....	9,340 33
49 08	253,175 37	1 35	16,624 29	900 66	7,087 40	4,668 09	43 98	282,550 22
....	10,667 58	.....	3,479 81	....	441 44	320 30	....	14,909 13
....	58,571 24	36 10	10,130 78	.....	1,225 10	1,384 94	....	71,348 16
. . ..	18,000 78	184 13	10,568 21	.....	804 97	681 74	.....	30,239 83
.....	12,955 15	.....	2,529 09	396 00	336 43	187 08	.....	16,403 75
....	8,637 25	.....	72 00	.....	578 55	259 90	.....	9,547 70
.....	3,749 88	....	1,116 46	.....	123 95	178 96	....	5,169 25
.....	5,124 90	.....	....	... .	465 65	120 08	.....	5,710 63
....	117,706 78	220 23	27,896 35	396 00	3,976 09	3,133 00	.....	153,328 45
.....	12,088 67	13 30	668 59	....	25 25	127 82	.....	12,923 63
.....	2,074 92	..... .	.....	....	464 75	95 32	..... .	2,634 99
..... .	14,163 59	13 30	668 59	.....	490 00	223 14	.....	15,558 62
..... .	13,249 77	.....	.....	.....	151 90	127 24	.....	13,528 91
... .	3,638 58	....	121 45	....	637 48	106 02	.. ....	4,503 53
.....	16,888 35	.... . .	121 45	.....	789 38	233 26	.. ..	18,032 44
.....	2,456 19	.....	60 00	....	1 90	44 21	100 00	2,662 30
....	23,458 10	.....	1,902 66	60 00	573 15	455 83	200 00	26,649 74
....	7,396 61	.....	5,932 31	.....	1,383 25	744 23	.. ...	15,456 40
.....	4,653 20	. . .. .	1,327 19	130 00	910 00	257 97	.. ..	7,278 36
... .	5,374 89	....	.. ..	.... ..	2,274 65	133 77	.....	7,783 31
.....	40,882 80	....	9,162 16	190 00	5,141 05	1,591 80	200 00	57,167 81

EXCISE

DR. No. 4.—COLLECTION DIVISIONS

Balances due by Collectors, April 1, 1913.	Amounts received from Department to meet Expenditures.	Deductions from Salaries for					Balances due to Collectors, March 31, 1914.	Totals.	Divisions.
		Superannuation.	Insurance.	Annuities.	Retirement.	Guarantee.			
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	
.....	27,181 76	43 92	212 90	.....	1,036 42	75 60	.....	28,550 60	..Vancouver.....
.....	9,019 13	144 84	.....	.....	127 92	23 04	.....	9,314 93	..Victoria.....
.....	4,449 26	57 96	.....	.....	.....	9 00	.....	4,516 22	..District Inspectors
.....	40,650 15	246 72	212 90	.....	1,164 34	107 64	.....	42,381 75	..*British Columbia*..
.....	711 87	.....	.....	.....	37 48	5 40	.....	754 75	..*Yukon* .....
.....	156 78	.....	.....	.....	.....	.....	.....	156 78	..Inspector of Bonded Factories..
.....	1,896 55	.....	.....	.....	.....	.....	.....	1,896 55	..Inspector of Breweries and Malt Houses.....
.....	3,472 46	86 61	.....	.....	.....	.....	.....	3,559 07	..Inspector of Distilleries.....
.....	4,046 36	63 96	.....	.....	.....	.....	.....	4,110 32	..Inspector of Tobacco Factories ....
343 98	559,855 18	3,885 83	2,126 66	140 40	13,350 70	1,350 54	1,105 77	582,159 06	..Total of Divisions, &c.....
.....	11,826 01	.....	.....	.....	.....	.....	.....	11,826 01	..General Expenditures.....
.....	302 05	.....	.....	.....	.....	.....	.....	302 05	..Legal Expenses...
.....	7,940 94	.....	.....	.....	.....	.....	.....	7,940 94	..Printing.....
.....	2,535 90	.....	.....	.....	.....	.....	.....	2,535 90	..Stationery.....
.....	4,408 38	.....	.....	.....	.....	.....	.....	4,408 38	..Commission to Customs Officers ...
.....	14,603 08	.....	.....	.....	.....	.....	.....	14,603 08	..Duty-pay to Officers in charge of most important establishments..
.....	9,439 96	.....	.....	.....	.....	.....	.....	9,439 96	..Provisional Allowance .....
.....	44 04	.....	.....	.....	.....	.....	.....	44 04	..Special Translation
.....	120,000 00	.....	.....	.....	.....	.....	.....	120,000 00	..Printing Tobacco Stamps.....
343 98	730,955 54	3,885 83	2,126 66	140 40	13,350 70	1,350 54	1,105 77	753,259 42	..Grand Total .....

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 12

1913-1914—*Concluded.*

IN ACCOUNT WITH EXPENDITURES—*Concluded.* CR.

Balances due to Collectors, April 1, 1913.	Expenditures authorized by the Department.						Balances due by Collectors, March 31, 1914.	Totals.
	Salaries.	Seizures Expenditures.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
.....	22,944 93	... .	2,786 15	537 00	1,118 96	1,163 62	.....	28,550 60
.. ..	7,562 25	.....	1,341 43	.....	134 20	277 05	.....	9,314 93
.....	2,899 92	.....	.....	.....	1,527 20	89 10	.....	4,516 22
... .	35,407 10	.....	4,127 58	537 00	2,780 30	1,529 77	.....	42,381 75
....	754 75	.....	....	.. . .	.....	.....	... .	754 75
.....	....	.....	....	.....	152 29	4 49	. .. .	156 78
.....	300 00	.....	... .	....	1,557 30	39 25	....	1,896 55
. .....	2,474 97	.....	....	93 00	986 20	4 90	.....	3,559 07
....	3,199 92	.....	.. . .	.. ..	879 90	30 50	.....	4,110 32
49 08	485,409 82	234 88	58,660 42	2,116 66	23,841 81	11,502 41	343 98	582,159 06
....	....	....	.....	.....	.....	11,826 01	....	11,826 01
....	....	.....	.....	..... .	.....	302 05	.....	302 05
....	... .	... .	.....	.....	.....	7,940 94	.....	7,940 94
.....	... .	.....	... ..	.....	.....	2,535 90	....	2,535 90
....	. ...	..... .	.....	... .	....	4,408 38	.....	4,408 38
.....	.....	.....	.....	.. ..	.....	14,603 08	.....	14,603 08
.....	....	....	.....	.....	.....	9,439 96	....	9,439 96
.....	. .....	.....	....	....	....	44 04	.....	44 04
.....	....	.....	.....	.....	.....	120,000 00	.....	120,000 00
49 08	485,409 82	234 88	58,660 42	2,116 66	23,841 81	182,602 77	343 98	753,259 42

W. HIMSWORTH,

Deputy Minister.

PREVENTIVE SERVICE

DR. No. 5.—IN ACCOUNT WITH EXPENDITURES. CR.

Amount received from Department to meet Expenditures.	Guarantee.	Totals.	—	Expenditures authorized by the Department.				Totals.
				Salaries.	Special Assistance.	Travelling Expenses.	Sundries.	
$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
			Ottawa					
			Owen Sound					
			Prescott					
975 71	2 88	978 59	Toronto	954 09		24 50		978 59
394 99		394 99	Joliette		383 29	5 10	6 60	394 99
823 95		823 95	Montreal		781 55	40 40	2 00	823 95
2,826 92		2,826 92	Quebec		2,755 17	71 75		2,826 92
150 00		150 00	St. Hyacinthe		150 00			150 00
18 00		18 00	Sherbrooke			18 00		18 00
1,423 33		1,423 33	St. John, N. B.	999 96	300 00	123 37		1,423 33
422 79		422 79	Halifax		399 84	21 50	1 45	422 79
929 18		929 18	Pictou		808 29	116 75	4 14	929 18
			Charlottetown					
609 65		609 65	Winnipeg		600 00	9 65		609 65
937 50		937 50	Vancouver		937 50			937 50
863 88		863 88	General				863 88	863 88
10,375 90	2 88	10,378 78	Totals	1,954 05	7,115 64	431 02	878 07	10,378 78

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH
Deputy Minister.

FOOD INSPECTION, 1913-1914.

Dr. — No. 6.—In Account with Expenditures. — Cr.

Amount received from Department to meet Expenditures.	Superannuation.	Guarantee.	Totals.	——	Expenditures authorized by the Department.					Totals.
					Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	
$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
413 02		45	413 47	Hamilton	166 65			119 80	127 02	413 47
436 58		1 08	437 66	Kingston	199 92			122 50	115 24	437 66
411 63		1 08	412 71	London	199 92			84 65	128 14	412 71
301 95			301 95	Ottawa				156 33	145 62	301 95
420 55		1 08	421 63	Toronto	199 92			85 50	136 21	421 63
1,983 73		3 69	1,987 42	Ontario	766 41			568 78	652 23	1,987 42
974 05	9 96	1 08	985 09	Montreal (J. J. Costigan)	499 92	30 00		308 55	146 62	985 09
617 31		1 08	648 42	" (D. J. Kearney)	399 96			81 70	166 76	648 42
697 06		1 08	698 14	Quebec	300 00		120 00	135 19	142 95	698 14
734 79		1 08	735 87	St. Hyacinthe	199 92			421 30	114 65	735 87
3,053 24	9 96	4 32	3,067 52	Quebec	1,399 80	30 00	120 00	946 74	570 98	3,067 52
556 06	3 96	1 08	561 10	St. John, N.B.	199 92			223 05	138 13	561 10
681 03		1 08	682 11	Halifax, N.S.	349 92			227 88	104 31	682 11
227 68		1 08	228 76	Charlottetown, P.E.I.	199 92			11 55	17 29	228 76
423 98		1 08	425 06	Winnipeg, Man.	233 28			67 10	124 68	425 06
528 38		63	529 01	Calgary, Alberta	175 00			218 75	135 26	529 01
465 29		1 08	466 37	Nelson	199 92			113 60	152 85	466 37
237 98		95	238 93	Vancouver	176 60			16 40	45 93	238 93
363 49		1 08	364 57	Victoria	199 92			39 20	125 45	364 57
1,066 76		3 11	1,069 87	British Columbia	576 44			169 20	324 23	1,069 87
8,5.0 86	13 92	16 07	8,550 85	Totals	3,900 69	30 00	120 00	2,433 05	2,067 11	8,550 85

FOOD INSPECTION, 1913-1914.

DR. No. 6.—IN ACCOUNT WITH EXPENDITURES.—*Concluded.* CR.

Amount received from Department to meet Expenditures.	Superannuation.	Guarantee.	Totals.	——	Expenditures authorized by the Department.					Totals.
					Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	
$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
3,827 00			3,827 00	Chief Analyst		510 00		501 03	2,815 97	3,827 00
8,524 95			8,524 95	General					8,524 95	8,524 95
5,490 21			5,490 21	Printing					5,490 21	5,490 21
416 27			416 27	Stationery					416 27	416 27
66 83			66 83	Special Translation					66 83	66 83
126 41			126 41	Armagh		74 97		40 70	10 74	126 41
140 70			140 70	Big Tracadie		130 37		4 35	5 98	140 70
868 40			868 40	Joliette		391 63		310 60	166 17	868 40
87 47			87 47	Montmagny		87 47				87 47
28 75			28 75	Regina				7 15	21 60	28 75
103 66			103 66	St. Jerôme		74 42		15 90	13 34	103 66
578 75			578 75	St. Perpétue		325 00		159 00	94 75	578 75
143 55			143 55	St. Philippe de Néri		143 55				143 55
28,953 80	13 92	16 07	28,953 80		3,900 69	1,767 41	120 00	3,471 78	19,693 92	28,953 80

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

BILL STAMPS, 1913–1914.

DR. — No. 7—BILL STAMPS DISTRIBUTORS in account with the Inland Revenue Department. — CR.

Balances, April 1, 1913.		Totals.		Balances, March 31, 1914.		Totals.
Stamps on hand.	Cash on hand.			Stamps on hand.	Cash on hand.	
$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.
1,372 77	.....	1,372 77	.....Post Office Department.....	1,372 77	.....	1,372 77
.....	11 54	11 54	..... Belleville, ex-Collector E. R. Benjamin.....	.....	11 54	11 54
.....	33 50	33 50	.....Three Rivers, ex-Collector B. Lasalle.....	.....	33 50	33 50
160 00	.....	160 00	.....McLeod, Colonel J. F., Fort McLeod.....	160 00	.....	160 00
1,532 77	45 04	1,577 81	.....Totals.....	1,532 77	45 04	1,577 81

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

DR. No. 8.—LAW STAMPS in account with the Inland Revenue Department. CR.

Stamps on hand April 1, 1913.	Stamps received from Department	Totals.	——	Deposited to the Credit of the Receiver General.	Stamps on hand March 31, 1914.	Totals.
$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.
54 65	2,300 00	2,354 65	....Cameron, R., Registrar, Supreme Court.....	2,297 70	56 95	2,354 65
53 80	5,290 00	5,343 80	....Morse, Charles, Registrar, Exchequer Court.....	5,215 30	128 50	5,343 80
5,867 80	....	5,867 80	....Controller, Dawson, Yukon Territorial Court.....	1,725 75	4,142 05	5,867 80
5,976 25	7,590 00	13,566 25	.....Totals.....	9,238 75	4,327 50	13,566 25

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

DR. No 9.—SUNDRY MINOR REVENUES, 1913–14. CR.

Accrued during the year ended March 31, 1914.	Totals.	——	Deposited to the Credit of the Receiver General.	Totals.
$ cts.	$ cts.		$ cts.	$ cts.
640 00	640 00	Registration of Agricultural Fertilizers Fees $334—Licenses $306	640 00	640 00
2,236 00	2,236 00	Adulteration of Food Fees $330—Penalities $1,906	2,236 00	2,236 00
293 98	293 98	Casual Revenue	293 98	293 98
1,833 08	1,833 08	Patent Medicines Registration Fees $1,805—Fines $28—Stamps 8 cts.	1,833 08	1,833 08
520 00	520 00	Commerical Feeding Stuffs Fees $115 Licenses $405	520 00	520 00
5,523 06	5,523 06		5,523 06	5,523 06

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

DR No. 10.—SUNDRY MINOR EXPENDITURES, 1913-14. CR.

Amounts received from the Department to meet Expenditures.	Totals.	——	Printing and Stationery.	Contingencies.	Totals.
$ cts.	$ cts.		$ cts.	$ cts.	$ cts.
207 20	207 20	Sundries, Minor Expenditures		207 20	207 20
10 19	10 19	Printing	10 19		10 19
10 00	10 00	Stationery	10 00		10 00
93 30	93 30	Export of Electric Power		93 30	93 20
14 90	14 90	Special Translation		14 90	14 90
640 00	640 00	Patent Medicines Act		640 00	640 00
400 87	400 87	" Printing	400 87		400 87
47 04	47 04	" Stationery	47 04		47 04
1,423 50	1,423 50		468 10	955 40	1,423 50

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

DR. No. 11.—FERRY LICENSES, REVENUE FOR 1913-1914. CR.

Balances due April 1, 1913.	Accrued during the year ended March 31, 1914.	Totals.		Deposited to the credit of the Receiver General.	Balances due March 31, 1914.	Totals.
$ cts.	$ cts.	$ cts.	*Ferries.*	$ cts.	$ cts.	$ cts.
.....	15 00	15 00	Buckingham and Cumberland	15 00	.....	15 00
.....	50 00	50 00	Buffalo and Point Abinot	50 00	.....	50 00
45 83	.....	45 83	Clair Station and Kent	.....	45 83	45 83
.....	10 00	10 00	Courtright and St. Clair	10 00	.....	10 00
.....	10 00	10 00	Cross Point and Campbellton	10 00	.....	10 00
20 00	.....	20 00	Edmundston and Maine	.....	20 00	20 00
.....	10 00	10 00	Fassett and St. Thomas d'Alfred	10 00	.....	10 00
.....	50 00	50 00	Fort Erie and Buffalo	50 00	.....	50 00
1,736 79	.....	1,736 79	Hull (old lease)	.....	1,736 79	1,736 79
.....	6 00	6 00	Montebello and Alfred	6 00	.....	6 00
.....	30 00	30 00	Niagara and Youngstown	30 00	.....	30 00
.....	1 00	1 00	Ouellette Street, Detroit	1 00	.....	1 00
1 00	.....	1 00	Pembroke and Allumette Island (old lease)	.....	1 00	1 00
.....	130 00	130 00	Pembroke and Allumette Island (new lease)	130 00	.....	130 00
.....	1 00	1 00	Prescott and Ogdensburg	1 00	.....	1 00
.....	10 00	10 00	Queenston and Lewiston	10 00	.....	10 00
.....	25 00	25 00	Rainy River	25 00	.....	25 00
.....	510 00	510 00	Rockliffe and Gatineau	510 00	.....	510 00
.....	5 00	5 00	Sand Point and Norway Bay	5 00	.....	5 00
.....	100 00	100 00	Sault Ste. Marie	100 00	.....	100 00
30 00	.....	30 00	St. Leonard and Van Buren	.....	30 00	30 00
.....	1 00	1 00	Walkerville and Detroit	1 00	.....	1 00
1,833 62	964 00	2,797 62		964 00	1,833 62	2,797 62

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

No. 12.—STATEMENT showing the quantities of the several articles, subject to 1912, 1913, 1914, and

Articles subject to Excise Duty.	1912.			
	Quantities.			Duty.
	Ex-manufactory.	Ex-warehouse.	Totals.	
	Gallons.	Gallons.	Gallons.	$ cts.
Spirits	9,317	4,534,785	4,544,102	8,655,636 60
	Imported 27,597		27,597	8,279 22
Totals	9,317	4,562,382	4,571,699	8,663,915 82
Malt Liquor, the duty being paid on malt	47,518,647		47,518,647	81,156 14
	Lbs.	Lbs.	Lbs	
Malt	347,576	113,681,947	114,029,523	1,710,796 62
Cigars—	No.	No.	No.	
Foreign		176,825	176,825	1,060 95
Under amended rates of duty (1909)	158,584,925	93,956,492	252,541,417	505,109 88
Totals	158,584,925	94,133,317	252,718,242	506,170 83
Cigarettes	755,790,845	26,872,996	782,663,841	1,889,376 74
	Lbs.	Lbs.	Lbs.	
Tobacco from foreign leaf		168	168	42 00
Canada twist		17,098	17,098	854 90
Tobacco under amended rates of duty (1909)	12,905,153	7,962,559	20,867,712	1,043,385 75
Snuff " " "	534,068		534,068	26,703 40
Totals	13,439,221	7,979,825	21,419,046	2,960,362 79
Raw leaf tobacco, Foreign		17,491,373	17,491,373	4,947,640 17
Other materials		1,372,144	1,372,144	219,543 04
Total duties on tobacco and cigarettes				8,127,546 00
Vinegar				81,945 41
Acetic acid				11,149 95
Licenses, Spirits				3,750 00
" Malt Liquor				5,600 00
" Malt				5,750 00
" Cigars				11,475 00
" Tobacco				3,230 00
" Bonded Manufactures				2,775 00
" Acetic acid				150 00
Grand Total duty				19,215,410 77

*Spirits imported for use in the manufacture of crude fulminate, on which duty, at the rate of 30 cents

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

Excise Duty, taken for consumption, during the fiscal years ended March 31, the duty accrued thereon.

1913.				1914.			
Quantities.			Duty.	Quantities.			Duty.
Ex-manufactory.	Ex-warehouse.	Totals.		Ex-manufactory.	Ex-warehouse.	Totals.	
Gallons.	Gallons.	Gallons.	$ cts.	Gallons.	Gallons.	Gallons.	$ cts.
2,508	4,999,937	5,002,445	9,470,642 12	2,001	4,762,618	4,764,619	9,014,579 05
.....	.....	.....	.....	.....	66,497	66,497	19,949 02
2,508	4,999,937	5,002,445	9,470,642 12	2,001	4,829,115	4,831,116	9,034,528 07
52,314,400	.....	52,314,400	143,612 30	56,060,846	.....	56,060,846	155,566 07
Lbs.	Lbs.	Lbs.		Lbs.	Lbs.	Lbs.	
4,433	123,916,174	123,920,607	1,859,124 57	1,000	133,793,639	133,794,639	2,007,250 77
No.	No.	No.		No.	No.	No.	
.....	113,500	113,500	681 00	.....	16,500	16,500	99 00
188,391,148	106,268,285	294,659,433	589,337 70	178,096,181	110,107,211	288,203,392	576,486 39
188,391,148	106,381,785	294,772,933	590,018 70	178,096,181	110,123,711	288,219,892	576,585 39
947,426,257	30,317,044	977,743,301	2,357,705 81	1,126,442,320	39,580,850	1,166,023,170	2,809,347 02
Lbs.	Lbs.	Lbs.		Lbs.	Lbs.	Lbs.	
.....	.....	.....	.....	.....	.....	.....	.....
.....	17,535	17,535	876 75	.....	11,057	11,057	552 85
13,545,167	8,148,942	21,694,109	1,084,705 68	13,865,155	7,777,801	21,642,956	1,082,148 12
659,992	.....	659,992	32,999 60	594,747	.....	594,747	29,737 35
14,205,159	8,165,477	22,371,636	3,476,287 84	14,459,902	7,788,858	22,248,760	3,921,785 34
.....	19,232,231	19,232,231	5,453,935 76	.....	18,775,803	18,775,803	5,322,240 99
.....	1,615,596	1,615,596	258,495 36	.....	1,510,010	1,510,010	241,601 60
.....	.....	.....	9,188,718 96	.....	.....	.....	9,485,627 93
.....	.....	.....	88,760 37	.....	.....	.....	88,760 38
.....	.....	.....	10,475 60	.....	.....	.....	11,337 59
.....	.....	.....	3,500 00	.....	.....	.....	3,500 00
.....	.....	.....	5,825 00	.....	.....	.....	5,850 00
.....	.....	.....	5,400 00	.....	.....	.....	5,050 00
.....	.....	.....	12,250 00	.....	.....	.....	12,350 00
.....	.....	.....	3,462 00	.....	.....	.....	3,798 00
.....	.....	.....	2,700 00	.....	.....	.....	3,400 00
.....	.....	.....	50 00	.....	.....	.....	75 00
.....	.....	.....	21,384,539 62	.....	.....	.....	21,393,679 20

per gallon, was collected and afterwards refunded, on the exportation of the fulminate,

W. HIMSWORTH,
Deputy Minister.

No. 13.—Amounts deposited monthly to the credit of the Receiver General, on

—	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	$ cts.	$ cts.	$ cts.	$ cts.
April :—				
Excise	460,732 09	861,742 99	16,530 38	8,988 83
" Seizures	50 00	53 40		
Ferries	110 00	16 00		
Weights and Measures Inspection	1,445 65	200 00		8 90
Gas Inspection	22 20			
Electric Light Inspection	310 50	46 20		
Patent Medicine Fees	75 00	30 00	8 00	5 00
Adulteration of Food Fees	20 00			
Fertilizers Fees	23 00			10 00
Commercial Feeding Stuffs				
Methylated Spirits	7,083 79	2,049 46	31 83	
Totals	469,872 23	864,138 05	16,570 21	9,012 73
May :—				
Excise	536,962 00	1,042 034 65	18,206 61	10,389 29
" Seizures		125 00		
Ferries	36 00	525 00		
Weights and Measures Inspection	3,846 35	2,773 05	111 05	330 42
Gas Inspection	2,511 90	2,033 40	36 00	35 80
Electric Light Inspection	2,658 30	1,416 60	85 50	172 50
" Export Licenses	250 00	75 00	25 00	
Law Stamps (Supreme Court)	266 35			
" (Exchequer Court)	448 00			
" (Yukon Territorial Court)				
Patent Medicine Fees	59 00	6 00	2 00	4 00
" Stamps	06			
Adulteration of Food Fees	10 00		5 00	
Fertilizers Fees	11 00	3 00	2 00	2 00
Commercial Feeding Stuffs	11 00	7 00		
Methylated Spirits	6,892 33	2,725 76	108 89	
Casual Revenue				
Totals	553,962 29	1,051,774 46	18,582 05	10,934 01
June :—				
Excise	486,264 87	1,048,551 26	14,689 99	10,679 28
" Seizures		25 00		
Ferries	50 00			
Weights and Measures Inspection	4,474 74	3,679 85	184 00	234 78
Gas Inspection	3,014 55	1,643 80	145 60	8 00
Electric Light Inspection	3,370 90	1,410 50	83 40	148 95
Electrical Sandard of Laboratory	1 80			
Law Stamps (Supreme Court)	141 10			
" (Exchequer Court	148 00			
" (Yukon Territorial Court)				
Patent Medicine Fees	30 00	30 00	3 00	1 00
Adulteration of Food Fees	10 00			
Fertilizers Fees	8 00			
Commercial Feeding Stuffs	18 00	7 00		
Methylated Spirits	6,140 66	2,709 39	27 29	
Testing Milk Glasses	567 75			
Casual Revenue	70			
Tota's	504,241 07	1,058,056 80	15,133 28	11,072 01

account of Inland Revenues, during the Year ended March 31, 1914.

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
1,122 33	99,014 55	54,615 10	18,811 16	54,559 49	.....	1,576,116 92
.....	.....	.....	.....	.....	.....	103 40
.....	.....	.....	.....	.....	.....	126 00
.....	.....	129 73	191 35	100 00	.....	2,075 63
.....	.....	.....	.....	.....	.....	22 20
.....	.....	.....	.....	.....	.....	356 70
.....	6 00	2 00	1 00	7 00	.....	134 00
.....	.....	.....	10 00	10 00	.....	40 00
.....	.....	10 00	.....	.....	.....	43 00
.....	.....	4 00	9 00	.....	.....	13 00
.....	35 48	.....	.....	103 96	.....	9,304 52
1,122 33	99,056 03	54,760 83	19,022 51	54,780 45	.....	1,588,335 37
984 33	101,365 79	52,660 52	21,872 16	82,433 60	144 50	1,867,103 45
.....	.....	.....	.....	.....	.....	125 00
.....	.....	.....	.....	.....	.....	561 00
15 60	664 30	388 55	692 50	272 65	.....	9,094 47
4 80	315 60	9 70	.....	394 20	.....	5,341 40
6 60	657 20	389 25	52 05	766 35	.....	6,204 35
.....	.....	.....	.....	100 00	.....	450 00
.....	.....	.....	.....	.....	.....	266 35
.....	.....	.....	.....	.....	.....	448 00
.....	.....	.....	.....	.....	125 55	125 55
.....	5 00	2 00	1 00	2 00	.....	81 00
.....	.....	.....	.....	.....	.....	06
.....	.....	65 00	.....	.....	.....	80 00
.....	.....	.....	.....	.....	.....	18 00
.....	.....	.....	2 00	.....	.....	20 00
.....	834 21	.....	.....	170 79	.....	10,731 98
.....	.....	.....	225 00	.....	.....	225 00
1,011 33	103,842 10	53,515 02	22,844 71	84,139 59	270 05	1,900,875 61
1,077 74	99,404 82	59,482 04	19,453 97	83,809 80	724 05	1,824,137 82
.....	.....	.....	.....	207 00	.....	232 00
.....	.....	.....	.....	.....	.....	50 00
11 90	774 30	352 00	783 10	387 05	.....	10,881 72
.....	304 40	23 10	.....	407 60	.....	5,547 05
15 60	479 55	517 95	240 90	1,136 55	.....	7,404 30
.....	.....	.....	.....	.....	.....	1 80
.....	.....	.....	.....	.....	.....	141 10
.....	.....	.....	.....	.....	.....	148 00
.....	.....	.....	.....	.....	152 75	152 75
.....	4 00	.....	.....	6 00	.....	74 00
.....	5 00	.....	.....	25 00	.....	40 00
.....	.....	.....	.....	5 00	.....	13 00
.....	5 00	.....	.....	.....	.....	30 00
.....	564 39	.....	.....	526 71	.....	9,968 44
.....	.....	.....	.....	.....	.....	567 75
.....	.....	.....	.....	.....	.....	70
1,105 24	101,541 46	60,375 09	20,477 97	86,510 71	876 80	1,859,390 43

No. 13.—Amounts deposited monthly to the credit of the Receiver General, on

—	Ontario.	Quebec.	New Brunswick.	Nova Scotia
	$ cts.	$ cts.	$ cts.	$ cts.
July;—				
Excise	476,285 08	1,017,806 31	16,905 29	9,216 11
" Seizures		200 00	100 00	
Weights and Measures Inspection	4,978 95	3,807 25	56 80	334 40
Gas Inspection	3,188 40	1,479 70	65 80	60 20
Electric Light Inspection	3,236 55	1,511 20	117 00	196 70
Law Stamps (Supreme Court)	187 60			
" (Exchequer Court)	162 70			
" (Yukon Territorial Court)				
Patent Medicines Fees	61 00	23 00	2 00	2 00
Adulteration of Food Fees	93 00	119 00		
Fertilizers Fees		4 00		
Commercial Feeding Stuffs		2 00		
Methylated Spirits	6,377 27	1,884 59	78 02	75 93
Casual Revenue	3 50			
Totals	494,574 05	1,026,837 05	17,324 91	9,885 34
August;—				
Excise	482,320 34	1,018,648 47	16,920 71	11,143 08
" Seizures		87 50	50 00	
Weights and Measures Inspection	4,061 35	3,752 20	290 85	644 50
Gas Inspection	3,103 70	988 30	120 80	5 40
Electric Light Inspection	2,271 60	1,265 10	48 30	92 55
Law Stamps (Exchequer Court)	138 00			
" (Yukon Territorial Court)				
Patent Medicines Fees	41 00	16 00		1 00
Adulteration of Food Fees	142 00	148 00	5 00	
Commercial Feeding Stuffs	16 00			
Methylated Spirits	6,829 84	1,941 67	55 52	
Casual Revenue	39 70			
Totals	498,963 53	1,026,847 24	17,491 18	11,886 53
September;—				
Excise	502,869 90	1,074,115 90	18,386 01	10,829 07
" Seizures		116 95		
Ferries	36 00			
Weights and Measures Inspection	3,604 66	3,366 05	318 93	280 40
" " Seizures	100 00			
Gas Inspection	2,561 55	1,512 80	53 80	52 10
Electric Light Inspection	1,773 75	627 40	90 75	194 55
Electrical Standards of Laboratory	6 25			
Law Stamps (Supreme Court)	198 80			
" (Exchequer Court)	31 00			
" (Yukon Territorial Court)				
Patent Medicines Fees	14 00	5 00	1 00	
Adulteration of Food Fees	120 00	34 00		
Fertilizers Fees	13 00		5 00	
Methylated Spirits	6,683 35	2,451 14	78 15	76 11
Totals	518,012 26	1,082,229 24	18,933 64	11,432 23

account of Inland Revenues, during the Year ended March 31, 1914—*Continued.*

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
882 55	96,133 83	54,855 82	22,860 64	72,614 17	....	1,767,559 80
....	....	....	....	.....	.....	300 00
72 60	781 45	302 65	835 10	228 35	.....	11,287 55
9 00	256 40	44 40	.....	471 40	.....	5,575 30
28 80	326 10	376 05	481 65	943 35	....	7,217 40
.....	....	....	. .....	....	....	187 60
....	....	....	.....	....	.....	162 70
....	....	....	.....	... .	177 70	177 70
....	3 00	3 00	.....	9 00	....	103 00
....	20 00	....	5 00	....	....	237 00
....	.. ..	.....	..... .	7 00	.....	11 00
.....	....	.. ..	.. ..	.....	....	2 00
.....	517 55	....	... .	..... .	.. ..	8,933 36
....	12 54	.....	.. ..	12 54	..... .	28 58
992 95	97,940 87	55,581 92	24,182 39	74,285 81	177 70	1,801,782 99
868 35	108,571 73	53,487 59	20,407 04	87,921 42	1,599 62	1,801,888 35
....	.. ..	.....	100 00	.....	.. ..	237 50
131 25	1,045 00	265 02	271 50	347 40	.....	10,809 07
....	264 80	132 20	... .	423 40	.....	5,038 60
35 40	442 25	504 15	119 70	637 95	.....	5,417 00
.....	.....	.....	.....	. .. .	.....	138 00
. ...	....	.....	.....	.....	165 75	165 75
.....	1 00	1 00	3 00	1 00	... .	64 00
... .	5 00	....	....	5 00	... .	395 00
.. . .	. .. .	....	....	.....	....	16 00
....	36 59	....	.....	188 29	.....	9,051 91
.....	....	... ...	.....	....	.....	39 70
1,035 00	110,366 37	54,389 96	20,901 24	89,524 46	1,765 37	1,833,170 88
1,043 69	114,444 39	49,361 45	27,268 39	75,511 10	1,030 24	1,874,860 14
.. ..	....	.....	....	....	.....	116 95
.....	....	. ...	.....	....	....	36 00
52 95	712 65	664 69	680 75	359 50	.....	10,040 58
. ...	.....	... .	....	.....	....	100 00
.. . .	242 80	48 30	.....	398 40	.....	4,869 75
12 60	296 40	475 65	201 15	505 80	.....	4,178 05
.....	... .	....	....	.....	.....	6 25
.....	.....	....	....	.....	.....	198 80
.....	....	.....	.....	....	.....	31 00
....	.....	.....	.....	.....	191 50	191 50
.....	.....	4 00	.....	1 00	.....	25 00
....	37 00	....	5 00	.....	....	196 00
.....	.....	.....	.....	... .	.....	18 00
.....	313 49	.....	.. ..	160 09	....	9,762 33
1,109 24	116,046 73	50,554 09	28,155 29	76,935 89	1,221 74	1,904,630 35

No. 13.—Amounts deposited monthly to the credit of the Receiver General, on

—	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	$ cts.	$ cts.	$ cts.	$ cts.
October :—				
Excise	547,559 84	1,086,032 99	17,275 82	9,591 72
" Seizures		88 00	15 00	
Weights and Measures Inspection	4,688 35	2,967 45	295 19	428 08
" " Seizures	30 00	5 00		
Gas Inspection	2,627 60	1,571 00	94 40	31 40
Electric Light Inspection	3,557 35	1,342 05	114 65	85 65
Electrical Standards of Laboratory	7 25			
Law Stamps (Supreme Court)	479 30			
" (Exchequer Court)	311 60			
" (Yukon Territorial Court)				
Patent Medicines Fees	33 00	12 00	1 00	1 00
" " Stamps	02			
Adulteration of Food Fees		99 00	5 00	5 00
Commercial Feeding Stuffs	23 00			7 00
Methylated Spirits	7,072 66	3,059 68	25 73	
Totals	566,389 97	1,095,177 17	17,826 79	10,149 85
November :—				
Excise	517,646 33	1,129,433 38	18,438 87	9,808 83
Ferries	130 00			
Weights and Measures Inspection	3,837 51	2,264 10	381 09	226 79
Gas Inspection	2,903 30	1,455 00	81 80	27 80
Electric Light Inspection	3,666 00	1,143 90	136 50	86 40
Law Stamps (Supreme Court)	52 15			
" (Exchequer Court)	681 50			
" (Yukon Territorial Court)				
Patent Medicines Fees	26 00	10 00	2 00	1 00
Adulteration of Food Fees	167 00	215 00		
Fertilizers Fees	25 00			2 00
Commercial Feeding Stuffs	26 00			
Methylated Spirits	6,697 40	2,608 08	79 51	74 27
Testing Milk Glasses	1,024 14			
Totals	536,882 33	1,137,229 46	19,119 77	10,227 09
December :—				
Excise	523,520 34	1,165,223 34	20,277 71	9,952 10
" Seizures		40 10		
Ferries	1 00		10 00	
Weights and Measures Inspection	3,966 33	1,838 30	237 74	219 17
Gas Inspection	2,726 40	1,433 80	187 60	8 20
Electric Light Inspection	3,621 55	1,731 90	108 30	227 10
Law Stamps (Supreme Court)	208 00			
" (Exchequer Court)	173 00			
" (Yukon Territorial Court)				
Patent Medicines Fees	29 00	10 00	1 00	
" " Fine	1 00			
Adulteration of Food Fees	372 00	184 00		
Fertilizers Fees	63 00	13 00		
Commercial Feeding Stuffs	156 00	20 00		
Methylated Spirits	6,735 14	1,394 45	25 47	28 67
Totals	541,572 76	1,171,888 89	20,847 82	10,435 24

account of Inland Revenues, during the year ended March 31, 1914—*Continued.*

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
1,158 72	123,092 82	58,273 60	29,874 92	71,905 88	1,521 86	1,946,288 17
						103 00
103 19	1,673 40	623 22	539 75	426 10		11,744 73
						35 00
9 00	190 20	44 00		195 80		4,763 00
15 00	747 45	258 75	314 10	499 20		6,934 20
						7 25
						479 30
						311 60
					253 50	253 50
	3 00	2 00				52 00
						02
		5 00				114 00
						30 00
				53 59		10,211 66
1,285 91	125,706 87	59,206 57	30,728 77	73,080 57	1,775 36	1,981,327 83
1,242 97	138,751 90	61,700 02	36,220 91	65,597 04	1,221 83	1,980,062 08
						130 00
39 30	2,103 84	559 30	705 20	444 15		10,661 28
10 40	371 00	45 70		442 00		5,337 00
60 60	766 95	677 85	265 50	930 45		7,734 15
						52 15
						681 50
					213 00	213 00
			1 00			40 00
				5 00		387 00
				15 00		42 00
		2 00				28 00
	293 19			129 05		9,881 50
						1,024 14
1,353 27	142,286 88	62,984 87	37,192 61	67,562 69	1,434 83	2,016,273 80
1,209 87	132,719 21	67,826 80	28,614 11	74,576 22	1,391 82	2,025,311 52
						40 10
						11 00
9 30	1,004 20	668 20	1,177 75	409 95		9,530 94
	321 00	20 60		282 20		4,979 80
50 25	686 55	742 65	136 35	679 80		7,984 45
						208 00
						173 00
					144 75	144 75
	2 00	1 00		1 00		44 00
						1 00
				20 00		576 00
				5 00		81 00
	20 00	10 00		15 00		221 00
	248 84			208 78		8,641 35
1,269 42	135,001 80	69,269 25	29,928 21	76,197 95	1,536 57	2,057,947 91

No. 13.—AMOUNTS deposited monthly to the credit of the Receiver General, on

——	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	$ cts.	$ cts.	$ cts.	$ cts.
JANUARY:—				
Excise	434,208 86	703,138 21	14,570 25	8,709 88
" Seizures		25 00		
Weights and Measures Inspection	2,911 09	905 30	361 03	172 61
Gas Inspection	3,055 80	1,694 60	37 40	60 80
Electric Light Inspection	2,999 40	1,197 70	103 65	145 15
Electrical Standard of Laboratory	15 75			
Law Stamps (Supreme Court)	108 90			
" " (Exchequer Court)	701 00			
" " (Yukon Territorial Court)				
Patent Medicines Fees	28 00	14 00		
" " Fines	17 00			
Adulteration of Food Fees	5 00	30 00		
Fertilizers Fees	91 00	24 00	6 00	44 00
Commercial Feeding Stuffs	66 00	7 00		5 00
Methylated Spirits	5,406 45	2,133 42	81 64	
Testing Milk Glasses	857 85			
Totals	450,472 10	709,169 23	15,159 97	9,137 44
FEBRUARY:—				
Excise	417,365 44	1,005 795 43	12,925 40	8,092 44
" Seizures		100 00		
Weights and Measures Inspection	3,778 98	1,434 60	94 97	184 60
Gas Inspection	2,496 70	1,330 40	50 40	4 20
Electric Light Inspection	3,046 00	1,250 20	171 15	239 85
Law Stamps (Supreme Court)	337 40			
" " (Exchequer Court)	253 00			
Patent Medicines Fees	209 00	42 00	11 00	8 00
" " Fines	10 00			
Adulteration of Food Fees	5 00	24 00		15 00
Fertilizers Fees	54 00	34 00	7 00	18 00
Commercial Feeding Stuffs	22 00	5 00		
Methylated Spirits	5,720 02	2,839 44	52 82	75 09
Totals	433,297 54	1,012,855 07	13,312 74	8,637 18
MARCH:—				
Excise	493,502 99	996,504 62	18,295 78	9,840 65
" Seizures		52 00		
Ferries	50 00			
Weights and Measures Inspection	5,629 62	2,810 00	244 61	98 50
Gas Inspection	6,108 70	3,712 80	94 80	63 00
Electric Light Inspection	6,223 45	2,175 95	289 20	316 35
Electrical Standard of Laboratory	4 00			
Law Stamps (Supreme Court)	318 10			
" " (Exchequer Court)	2,167 50			
" " (Yukon Territorial Court)				
Patent Medicines Fees	611 00	130 00	18 00	21 00
Adulteration of Food Fees	79 00	29 00	5 00	
Fertilizers Fees	79 00	7 00	17 00	6 00
Commercial Feeding Stuffs	30 00			
Methylated Spirits	8,159 37	3,373 85	82 90	75 19
Testing Milk Glasses	201 20			
Totals	523,163 93	1,011,795 22	19,047 29	10,420 73

account of Inland Revenues, during the year ended March 31, 1914.—*Concluded.*

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
1,090 14	105,044 01	55,709 22	21,716 43	63,375 50	186 54	1,407,749 04
						25 00
19 98	516 40	450 53	585 95	190 20		6,113 09
8 80	218 40	101 00		378 80		5,555 60
42 90	794 25	375 90	294 30	639 15		6,592 40
						15 75
						108 90
						701 00
					113 50	113 50
	1 00		1 00	3 00		47 00
						17 00
						35 00
				12 00		177 00
		5 00	5 00	10 00		98 00
	36 31			113 95		7,771 77
						857 85
1,161 82	106,610 37	56,641 65	22,602 68	64,722 60	300 04	1,435,977 90
793 48	80,649 68	35,386 71	16,302 78	63,941 81	429 91	1,641,683 08
						100 00
12 45	435 55	439 90	744 10	304 40		7,429 55
	194 20	69 70		239 40		4,385 00
10 20	505 60	420 90	347 55	550 20		6,541 65
						337 49
						253 00
2 00	8 00	2 00	1 00	17 00		300 00
						10 00
64 00	5 00					113 00
		13 00				126 00
				5 00		32 00
	394 15			232 50		9,314 02
882 13	82,192 18	36,332 21	17,395 43	65,290 31	429 91	1,670,624 70
1,439 55	96,178 29	52,747 93	18,674 46	85,134 52	435 42	1,775,754 25
						52 00
						50 00
26 70	963 00	667 92	484 00	483 50		11,407 85
9 00	638 20	267 70		600 60		11,494 80
18 00	1,351 80	710 40	801 75	1,539 90		13,426 86
						4 00
						318 10
						2,167 50
					187 75	187 75
2 00	18 00	11 00	3 00	27 00		841 00
						113 00
				2 00		111 00
						30 00
	450 66		64 29	429 28		12,635 54
						201 20
1,485 25	99,599 95	54,404 95	20,027 50	88,216 80	623 17	1,828,794 79

RECAPITULATION of Statement No. 13 showing the

—	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	$ cts.	$ cts.	$ cts.	$ cts.
Excise	5,879,238 08	12,152,077 55	203,422 82	117,241 32
" Seizures	50 00	912 95	165 00	
Ferries	413 00	541 00	10 00	
Weights and Measures Inspection	47,223 58	29,893 15	2,576 26	3,163 15
" " Seizures	130 00	5 00		
Gas Inspection	34,320 80	18,855 60	968 40	356 90
Electric Light Inspection	36,735 35	15,118 70	1,348 40	1.905 75
Electric Light Export Licenses	250 00	75 00	25 00	
Electrical Standards of Laboratory	35 05			
Law Stamps (Supreme Court)	2,998 70			
" (Exchequer Court)	4,514 30			
" (Yukon Territorial Court)				
Patent Medicines Fees	1,216 00	328 00	49 00	44 00
" Fines	28 00			
" Stamps	08			
Adulteration of Food Fees	1,023 00	882 00	20 00	20 00
Fertilizers Fees	367 00	85 00	37 00	82 00
Commercial Feeding Stuffs	368 00	48 00		12 00
Methylated Spirits	79,798 28	29,170 93	727 77	405 26
Testing Milk Glasses	2,650 94			
Casual Revenue	43 90			
Totals	6.091,404 06	12,247,997 88	209,349 65	123,230 38

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

total revenues for the year ended March 31, 1914.

Prince Edward Island	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts	$ cts.	$ cts.
12,913 72	1,295,371 02	656,106 80	282,076 97	881,380 55	8,685 79	21,488,514 62
			100 00	207 09		1,434 95
						964 00
495 22	10,564 09	5,511 71	7,691 05	3,953 25		111,076 46
						135 00
51 00	3,317 00	806 40		4,233 80		62,909 90
295 95	7,054 10	5,449 50	3,255 00	8,828 70		79,991 45
				100 00		450 00
						35 05
						2,998 70
						4,514 30
					1,725 75	1,725 75
4 00	51 00	28 00	11 00	74 00		1,805 00
						28 00
						08
61 00	72 00	70 00	20 00	65 00		2,236 00
		23 00		46 00		640 00
	25 00	21 00	16 00	30 00		520 00
	3,724 86		64 29	2,316 99		116,208 38
						2,650 94
	12 54		225 00	12 54		293 98
13,823 89	1,320,191 61	668,016 41	293,459 31	901.247 83	10,411 54	21,879,132 56

W. HIMSWORTH,
Deputy Minister.

5 GEORGE V., A. 1915

EXCISE

No. 14.—Comparative Statement

—		April.	May.	June.	July.	August.
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Spirits	1912-13	702,122 44	726,757 71	678,405 20	667,790 76	784,287 91
	1913-14	742,851 94	749,583 84	651,561 65	683,375 58	722,654 15
Increase		40,729 50	22,826 13		15,584 82	
Decrease				26,843 55		61,633 76
Malt Liquor	1912-13	17,128 48	8,885 38	10,618 32	17,200 72	13,420 80
	1913-14	20,167 20	14,339 20	14,399 70	15,640 80	13,955 80
Increase		3,038 72	5,453 82	3,781 38		535 00
Decrease					1,559 92	
Malt	1912-13	166,145 25	176,275 29	171,212 54	200,038 75	176,705 04
	1913-14	182,052 75	195,691 97	197,287 93	201,669 95	180,658 81
Increase		15,907 50	19,416 68	26,075 39	1,631 20	3,953 80
Decrease						
Tobacco	1912-13	743,242 72	779,010 39	740,998 09	794,743 20	827,047 16
	1913-14	839,666 09	890,169 69	815,854 53	861,873 36	799,051 31
Increase		96,423 37	111,159 30	74,856 44	67,130 16	
Decrease						27,995 85
Cigars	1912-13	54,684 10	48,700 16	48,572 14	51,920 30	51,053 95
	1913-14	62,127 83	50,654 29	50,180 26	52,206 26	51,208 63
Increase		7,443 73	1,954 13	1,608 12	285 96	154 68
Decrease						
Manufactures in Bond	1912-13	9,074 41	9,976 71	6,990 26	7,493 58	11,388 29
	1913-14	8,538 69	8,718 71	8,955 32	8,261 86	11,222 47
Increase				1,965 06	768 28	
Decrease		535 72	1,258 00			165 82
Acetic Acid	1912-13	1,098 92	1,114 93	1,421 08	1,206 62	1,377 75
	1913-14	1,137 76	1,295 73	1,422 38	1,093 54	1,084 69
Increase		38 84	180 80	1 30		
Decrease					113 08	292 06
Seizures	1912-13	65 00	113 60	289 05	285 00	5 46
	1913-14	128 40	307 00	50 00	425 00	87 50
Increase		63 40	193 40		140 00	82 04
Decrease				239 05		
Other Receipts	1912-13	19,141 95	4,595 25	5,989 62	6,689 79	6,988 55
	1913-14	19,183 90	5,177 84	10,663 50	2,865 85	6,427 34
Increase		41 95	582 59	4,673 88		
Decrease					3,823 94	561 21
Total Revenue	1912-13	1,712,703 27	1,755,429 42	1,664,496 30	1,747,368 72	1,872,274 91
	1913-14	1,875,854 56	1,915,938 27	1,750,375 27	1,827,412 20	1,786,350 73
Total Increase		163,151 29	160,508 85	85,878 97	80,043 48	
Decrease						85,924 18

Inland Revenue Department,
Ottawa, June 1, 1914.

SESSIONAL PAPER No. 12

REVENUES.

of Receipts for 1912-13 and 1913-14.

September.	October.	November.	December.	January.	February.	March.	Totals
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
794,751 95	882,910 90	948,578 92	1,127,802 80	731,858 54	694,108 76	734,766 23	9,474,142 12
788,603 77	890,232 11	871,718 57	1,017,422 35	634,020 84	659,769 42	635,233 85	9,038,028 07
.....	7,321 21	.....	.....	.....	.....	.....	.....
6,148 18	.....	76,860 35	110,380 45	97,837 70	43,339 34	99,532 38	436,114 05
13,636 60	10,380 80	14,548 40	10,990 30	9,549 40	10,764 40	12,313 70	149,437 30
11,972 00	13,694 20	10,915 00	12,125 20	10,037 50	8,764 00	15,405 47	161,416 07
.....	3,313 40	.....	1,134 90	488 10	.....	3,091 77	11,978 77
1,664 60	.....	3,633 40	.....	.....	2,000 40	.....	.....
133,135 43	127,682 84	136,248 39	145,848 21	142,433 07	143,333 88	145,165 88	1,864,524 57
165,404 38	148,158 95	151,715 60	151,809 72	144,869 87	136,396 50	156,584 31	2,012,300 77
31,968 95	20,476 11	15,467 21	5,961 51	2,436 80	.....	11,418 43	147,776 20
.....	.....	.....	.....	.....	6,937 38	.....	.....
754,122 40	867,434 82	830,250 45	642,315 50	791,597 21	809,585 08	611,833 94	9,192,180 96
812,630 80	880,456 11	831,673 63	705,345 41	671,087 66	725,760 91	655,856 43	9,489,425 93
58,508 40	13,021 29	1,423 18	63,029 91	.....	.....	44,022 49	297,244 97
.....	.....	.....	.....	120,509 55	83,824 17	.....	.....
17,532 92	56,169 59	55,983 60	52,155 85	44,880 29	42,246 31	48,369 49	602,268 70
51,681 80	54,691 06	51,685 86	48,767 97	39,193 88	34,750 37	41,787 18	588,935 39
4,148 88	.....	.....	.....	.....	.....	.....	.....
.....	1,478 53	4,297 74	3,387 88	5,686 41	7,495 94	6,582 31	13,333 31
12,461 71	12,405 11	7,155 69	3,509 03	2,800 61	3,291 97	4,913 00	91,460 37
14,518 79	10,146 85	6,060 43	2,965 16	3,354 32	3,505 25	5,882 53	92,160 38
2,087 08	.....	.....	.....	553 71	213 28	969 53	700 01
.....	2,258 26	1,095 26	543 87	.....	.....	.....	.....
1,042 53	528 02	726 15	556 22	549 98	539 95	363 45	10,525 60
1,100 64	1,670 84	926 70	390 56	.....	370 24	919 51	11,412 59
58 11	1,142 82	200 55	.....	.....	.....	556 06	886 99
.....	.....	.....	165 66	549 98	169 71	.....	.....
214 50	250 00	25 00	355 25	100 00	60 00	300 00	2,062 86
116 95	103 00	.....	65 10	.....	100 00	52 00	1,434 95
.....	.....	.....	.....	.....	40 00	.....	.....
97 55	147 00	25 00	290 15	100 00	.....	248 00	627 91
8,921 47	8,392 34	9,532 03	7,882 90	12,173 67	6,226 30	6,845 22	103,379 09
10,358 82	8,612 04	4,767 47	10,763 30	5,879 61	4,656 89	4,396 74	93,753 30
1,437 35	219 70	.....	2,880 40	.....	.....	.....	.....
.....	.....	4,764 56	.....	6,294 06	1,569 41	2,448 48	9,625 79
1,766,119 51	1,966,154 42	2,003,048 63	1,991,416 06	1,735,942 77	1,710,156 65	1,564,870 91	21,490,011 57
1,856,417 95	2,007,765 16	1,929,463 26	1,949,654 77	1,508,443 68	1,565,073 58	1,516,118 02	21,488,867 45
90,298 44	41,610 74	.....	.....	.....	.....	.....	.....
.....	.....	73,585 37	41,761 29	227,499 09	145,083 07	48,752 89	1,144 12

W. HIMSWORTH,
Deputy Minister.

No. 15.—Refunds of Revenue during the Fiscal year ended March 31, 1914.

EXCISE.

Articles.	To whom paid.	Date.	Divisions	Under what Authority Refunded.	Amounts.	Totals.
		1913.			$ cts.	$ cts.
Spirits	Parke, Davis & Co	April 21	Windsor	Refunded under Revised Statutes, cap 51, sec. 254	141 51	
	" "	May 6	"	" " 51 " 254	548 75	
	" "	" 12	"	" " 51 " 254	850 19	
	Canadian Bank of Commerce for A. L. Howard Co	" 20	Sherbrooke	" " 51 " 254	4,601 72	
	Parke, Davis & Co	" 21	Windsor	" " 51 " 254	416 47	
	" "	June 9	"	" " 51 " 254	539 33	
	" "	" 24	"	" " 51 " 254	395 20	
	" "	" 30	"	" " 51 " 254	128 81	
	" "	July 16	"	" " 51 " 254	756 64	
	" "	" 28	"	" " 51 " 254	203 43	
	" "	Aug. 7	"	" " 51 " 254	498 55	
	" "	" 15	"	" " 51 " 254	310 27	
	" "	" 28	"	" " 51 " 254	306 59	
	" "	Sept. 5	"	" " 51 " 254	106 12	
	" "	" 24	"	" " 51 " 264	1,266 27	
	Canadian Bank of Commerce for A. L. Howard Co	Oct. 21	Sherbrooke	" " 51 " 254	6,227 72	
	Parke, Davis & Co	" 21	Windsor	" " 51 " 254	152 80	
	" "	" 27	"	" " 51 " 254	555 96	
	Heney, John	Nov. 13	Prescott	" " 51 " 254	9,119 58	
	Parke, Davis & Co	" 17	Windsor	" " 51 " 254	260 24	
	" "	" 24	"	" " 51 " 254	321 98	
	" "	Dec. 1	"	" " 51 " 254	136 12	
	" "	" 22	"	" " 51 " 254	158 41	
		1914.				
	" "	Jan. 11	"	" " 51 " 254	215 59	
	" "	" 19	"	" " 51 " 254	730 62	
	" "	Feb. 2	"	" " 51 " 254	41 69	
	" "	" 16	"	" " 51 " 254	79 00	
	" "	Mar. 2	"	" " 51 " 254	366 65	
	" "	" 9	"	" " 51 " 254	429 82	
	" "	" 27	"	" " 51 " 254	327 44	
	" "	April 14	"	" " 51 " 254	783 65	
					31,107 12	
				Less Refunded by Parke Davis & Co	9 76	31,097 36

Malt	O'Keefe Brewing Co., The	May	9	Toronto	Refunded under Revised Statutes, cap	24	sec.	92		5,618	25
	Vancouver Breweries Co., Ltd	"	14	Vancouver	"	"	51	"	201	360	00
	Canadian B. & M. Co., Ltd.	"	14	"	"	"	51	"	201	855	00
	Hoeschen Wentzler Brewing Co., Ltd	"	14	Moose Jaw	"	"	51	"	201	289	50
	Edmonton B. & M. Co., Ltd., The	"	14	Calgary	"	"	51	"	201	144	00
	Lethbridge B. & M. Co., Ltd., The	"	14	"	"	"	51	"	201	450	00
	Mountain Spring B. Co., Ltd.	"	14	"	"	"	51	"	201	93	00
	National Breweries Ltd., The.	"	14	Montreal	"	"	51	"	201	108	00
	Nelson, Nels	"	16	Vancouver	"	"	51	"	201	22	50
	Berlin Lion Brewery Ltd., The	"	17	Guelph	"	"	51	"	141	13	43
	Carling, T. H	"	30	London	"	"	51	"	141	112	34
	Lethbridge B. & M. Co., Ltd., The	June	20	Calgary	"	"	51	"	201	225	00
	Hoeschen Wentzler Brewing Co., Ltd	"	20	Moose Jaw	"	"	51	"	201	198	00
	National Breweries, Ltd., The	"	20	Montreal	"	"	51	"	201	108	00
	Canadian B. & M. Co., Ltd.	"	20	Vancouver	"	"	51	"	201	1,453	50
	Vancouver Breweries Ltd	"	20	"	"	"	51	"	201	540	00
	Edmonton B. & M. Co., Ltd., The	"	24	Calgary	"	"	51	"	201	180	00
	Canada Malting Co	"	28	Hamilton	"	"	51	"	201	21	00
	Dyson Vinegar Co., Ltd., The.	July	11	Winnipeg	"	"	24	"	92	1,023	00
	National Breweries, Ltd., The	"	16	Montreal	"	"	51	"	201	162	00
	Hoeschen Wentzler Brewing Co., Ltd	"	16	Moose Jaw	"	"	51	"	201	145	50
	Mountain Spring B. Co., Ltd.	"	16	Calgary	"	"	51	"	201	190	50
	Vancouver Breweries, Ltd.	"	16	Vancouver	"	"	51	"	201	540	00
	Canadian M. & B. Co., Ltd.	"	16	"	"	"	51	"	201	1,026	00
	Nelson, Nels	"	16	"	"	"	51	"	201	18	00
	Edmonton B. & M. Co., Ltd., The	"	18	Calgary	"	"	51	"	201	144	00
	Lethbridge B. & M. Co., Ltd., The	"	18	"	"	"	51	"	201	987	00
	Hoeschen Wentzler Brewing Co., Ltd	Aug.	13	Moose Jaw	"	"	51	"	201	150	00
	Edmonton B. & M. Co., Ltd., The	"	13	Calgary	"	"	51	"	201	180	00
	Lethbridge B. & M. Co., Ltd., The	"	13	"	"	"	51	"	201	1,038	00
	Mountain Spring B. Co., Ltd.	"	13	"	"	"	51	"	201	279	00
	Vancouver Breweries Ltd.	"	15	Vancouver	"	"	51	"	201	720	00
	Nelson, Nels	"	15	"	"	"	51	"	201	96	00
	National Breweries, Ltd., The	"	15	Montreal	"	"	51	"	201	108	00
	Bauer, A	"	16	Guelph	"	"	51	"	141	81	27
	Hoeschen Wentzler Brewing Co., Ltd	Sept.	12	Moose Jaw	"	"	51	"	201	180	00

EXCISE—*Continued.*

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.	Totals.
		1913.			$ cts.	$ cts.
Malt—*Continued* ...	Edmonton B. & M. Co., Ltd., The	Sept. 12	Calgary	Refunded under Revised Statutes, cap. 51 Sec. 201	252 00	
	Lethbridge B. & M. Co., Ltd., The	" 12	"	" " 51 " 201	459 00	
	Calgary B. & M. Co., Ltd.	" 12	"	" " 51 " 201	206 25	
	National Breweries Ltd., The	" 22	Montreal	" " 51 " 201	108 00	
	Vancouver Breweries, Ltd.	" 22	Vancouver	" " 51 " 201	720 00	
	Nelson, Nels	" 22	"	" " 51 " 201	49 50	
	Canadian B. & M. Co., Ltd.	" 22	"	" " 51 " 201	2,144 25	
	Walkerville Brewing Co., Ltd.	Oct. 7	Windsor	" " 51 " 201	104 25	
	Dyson Vinegar Co., Ltd., The	" 13	Winnipeg	" " 51 " 201	666 00	
	Vancouver Breweries, Ltd.	" 14	Vancouver	" " 51 " 201	540 00	
	Canadian M. & B. Co., Ltd.	" 14	"	" " 51 " 201	1,072 50	
	Hoeschen Wentzler Brewing Co., Ltd	" 14	"	" " 51 " 201	57 22	
	Edmonton B. & M. Co., Ltd., The	" 14	Calgary	" " 51 " 201	72 00	
	Lethbridge B. & M. Co., Ltd., The	" 14	"	" " 51 " 201	90 00	
	Mountain Spring B. Co., Ltd.	" 14	"	" " 51 " 201	186 00	
	Calgary B. & M. Co., Ltd.	" 14	"	" " 51 " 201	206 25	
	National Breweries, Ltd., The	" 15	Montreal	" " 51 " 201	162 00	
	Wilson Lytle Badgerow Co., Ltd	" 16	Toronto	" " 51 " 201	579 17	
	Walkerville Brewg. Co. Ltd., The	Nov. 11	Windsor	" " 51 " 141	666 00	
	National Breweries Ltd., The	" 14	Montreal	" " 51 " 201	108 00	
	Hoeschen & Wentzler B. Co., Ltd	" 14	Moose Jaw	" " 51 " 201	295 42	
	Edmonton B. & M. Co., Ltd., The	" 14	Calgary	" " 51 " 201	72 00	
	Lethbridge B. & M. Co., Ltd., The	" 14	"	" " 51 " 201	814 50	
	Mountain Spring B. Co., Ltd.	" 14	"	" " 51 " 201	87 00	
	Calgary B. & M. Co. Ltd.	" 14	"	" " 51 " 201	206 25	
	Vancouver Breweries, Ltd.	" 14	Vancouver	" " 51 " 201	360 00	
	Canadian B. & M. Co., Ltd.	" 14	"	" " 51 " 201	877 50	

Nelson, Nels	"	14..	"	"	"	51	"	201..	48 00
Halifax Breweries, Ltd	Dec.	11..	Halifax	"	"	51	"	141....	61 80
National Breweries, Ltd., The	"	13..	Montreal	"	"	51	"	201....	108 00
Frontenac Breweries, Ltd	"	13..	"	"	"	51	"	261....	421 50
Hoeschen & Wentzler B. Co., Ltd	"	13..	Moose-jaw	"	"	51	"	201..	264 00
Edmonton B. & M. Co., Ltd., The	"	13..	Calgary	"	"	51	"	201....	156 00
Lethbridge B. & M. Co., Ltd., The	"	13..	"	"	"	51	"	201....	720 00
Mountain Spring B. Co., Ltd	"	13..	"	"	"	51	"	201....	79 50
Calgary B. & M. Co., Ltd	"	13..	"	"		51	"	201...	103 13
Canadian B. & M. Co., Ltd	"	17..	Vancouver	"		51	"	201	487 50
		1914							
Canada Malting Co	Jan.	7..	Winnipeg	"	"	21	"	92....	15 00
Dyson Vinegar Co., The	"	14..	"	"		51	"	201....	1,044 00
Victoria Phoenix B. Co., Ltd., The	"	16..	Victoria	"	"	51	"	201....	912 00
Vancouver Breweries Ltd., The	"	16..	Vancouver			51	"	201....	360 00
Canadian B. & M. Co., Ltd	"	16..	"	"		51	"	201..	685 50
Westminster Brewery	"	16..	"	"		51	"	201....	27 00
National Breweries Ltd., The	"	16..	Montreal		"	51	"	201.	108 00
Frontenac Breweries	"	19..	"	"		51	"	201....	105 00
Wilson Lytle Badgerow Co., Ltd	"	23..	Toronto			51	"	201..	111 35
Edmonton B. & M. Co., Ltd., The	"	23..	Calgary			51	"	201..	195 00
Lethbridge B. & M. Co., Ltd., The	"	23..	"	"		1	"	201..	635 38
Mountain Spring B. Co., Ltd	"	23..	"	"		51	"	201....	294 00
Vancouver Breweries Ltd., The	Feb.	12..	Vancouver			1	"	201....	180 00
Canadian B. & M. Co., Ltd	"	12..	"			51	"	201....	840 00
Edmonton B. & M. Co. Ltd., The	"	12..	Calgary			1	"	201	117 00
Lethbridge B & M Co., Ltd., The	"	12..	"			1	"	201..	261 00
Mountain Spring B. Co., Ltd	"	12..	"			51	"	201...	252 00
Calgary B. & M. Co., Ltd	"	12..	"			51	"	201	103 13
National Breweries Ltd., The	"	13..	Montreal			51	"	201...	108 00
Frontenac Breweries Ltd	"	13..	"			51	"	201	100 50
Ran Mary	Mar.	2..	Guelph			51	"	141...	70 50
Farquharson & Grainger	"	5.	Owen Sound			51	"	141....	27 72
Lethbridge B. & M. Co., Ltd., The	"	12..	Calgary	"		51	"	201....	180 00
Edmonton B. & M. Co., Ltd., The	"	12..	"			51	"	201....	333 00
Mountain Spring B. Co., Ltd	"	12..	"			51	"	201....	360 00

EXCISE—*Continued.*

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.	Totals.
		1914.			$ cts.	$ cts.
Malt—*Continued.*	Calgary B. & M. Co., Ltd.	March 12	Calgary	Refunded under Revised Statutes, cap. 51 sec. 201	103 12	
	Canadian B. & M. Co., Ltd.	" 13	Vancouver	" " 51 " 201	504 00	
	National Breweries Ltd., The	" 13	Montreal	" " 51 " 201	108 00	
	Drewry, E. L.	April 11	Winnipeg	" " 51 " 201	282 00	
	Wilson Lytle Badgerow Co., Ltd	" 16	Toronto	" " 51 " 201	154 50	
	National Breweries, Ltd., The	" 18	Montreal	" " 51 " 201	108 00	
	Frontenac Breweries, Ltd.	" 18	"	" " 51 " 201	202 50	
	Canadian B. & M. Co., Ltd.	" 18	Vancouver	" " 51 " 201	1,008 00	
	Hoeschen Wentzler B. Co., Ltd.	" 18	Moose Jaw	" " 51 " 201	54 00	
	Lethbridge B. & M. Co., Ltd., The	" 18	Calgary	" " 51 " 201	577 50	
	Mountain Spring B. Co., Ltd., The	" 18	"	" " 51 " 201	522 00	
	Calgary B. & M. Co., Ltd.	" 18	"	" " 51 " 201	103 12	
	Dyson Vinegar Co	" 18	Winnipeg	" " 51 " 201	285 90	
	Corby H. Distillery Co.	" 22	Belleville	" " 24 " 92	489 50	
	Ray, Jas. A	" 22	"	" " 24 " 92	153 89	
	Bixel, A	" 22	Brantford	" " 24 " 92	444 08	
	Oland, John C	" 22	"	" " 24 " 92	29 10	
	Stevenson, Robt	" 22	Kingston	" " 24 " 92	144 01	
	Fisher, John	" 22	"	" " 24 " 92	163 95	
	Blake & Dunne	" 22	Ottawa	" " 24 " 92	79 20	
	Capital Brewing Co., Ltd., The	" 22	"	" " 24 " 92	860 54	
	Diamond Brewery Co., Ltd., The	" 22	Port Arthur	" " 24 " 92	523 40	
	Kakabeka Falls B. Co., Ltd., The	" 22	"	" " 24 " 92	907 50	
	Lakewood Brewery Co.	" 22	"	" " 24 " 92	147 33	
	Bowie & Co.'s B., Ltd.	" 22	Prescott	" " 24 " 92	123 69	
	Wiser, J. P. & Sons	" 22	"	" " 24 " 92	265 50	
	McCarthy, T. C.	" 22	"	" " 24 " 92	329 50	
	St. Lawrence Brewery, Ltd.	" 22	"	" " 24 " 92	1,867 50	
	Watson, John	" 22	Stratford	" " 24 " 92	157 42	
	Devlin, Felix	" 22	"	" " 24 " 92	191 70	

Barrie Malting & Extrac Co., Ltd., The	"	22	Toronto	"	"	"	"	24	"	92	54	24
Kemp, D. C.	"	22	"	"	"	"	"	24	"	92	126	14
Wright, A. J.	"	22	"	"	"	"	"	24	"	92	17	32
Soo Falls Brg. Co., Ltd.	"	22	"	"	"	"	"	24	"	92	867	51
Kormann B. Ltd., The	"	22	"	"	"	"	"	24	"	92	183	60
Gooderham & Worts, Ltd	"	22	"	"	"	"	"	24	"	92	194	40
Toronto B. & M. Co., Ltd	"	22	"	"	"	"	"	24	"	92	1,298	83
Lothar Reinhardt	"	22	"	"	"	"	"	24	"	92	1,447	50
Dominion B. Co., Ltd., The	"	22	"	"	"	"	"	24	"	92	1,931	47
Cosgrave B. Co., Ltd., The	"	22	"	"	"	"	"	24	"	92	2,091	75
Copland B. Co., Ltd	"	22	"	"	"	"	"	24	"	92	2,333	49
O'Keefe B. Co., Ltd., The	"	22	"	"	"	"	"	24	"	92	5,622	80
Walkerville B. Co., Ltd., The	"	22	Windsor	"	"	"	"	24	"	92	333	75
Hiram Walker & Sons, Ltd.	"	22	"	"	"	"	"	24	"	92	1,981	53
Irion, A. L.	"	22	"	"	"	"	"	24	"	92	705	00
Schwan, V.	"	22	Owen Sound	"	"	"	"	24	"	92	71	53
Huether, J. C	"	22	"	"	"	"	"	24	"	92	84	00
Farquharson & Grainger	"	22	"	"	"	"	"	24	"	92	63	75
Eaton, C. Estate of	"	22	"	"	"	"	"	24	"	92	110	65
St. Hyacinthe Dis. Co., Ltd., The	"	22	St. Hyacinthe	"	"	"	"	24	"	92	103	05
Ready's Breweries, Ltd.	"	22	St. John	"	"	"	"	24	"	92	798	90
Jones, Simeon	"	22	"	"	"	"	"	24	"	92	285	00
Halifax Breweries, Ltd	"	22	Halifax	"	"	"	"	24	"	92	654	22
Oland & Son	"	22	"	"	"	"	"	24	"	92	299	10
Keith, D.	"	22	"	"	"	"	"	24	"	92	1,701	00
Moose-Jaw B. & M. Co., Ltd.	"	22	Moose Jaw	"	"	"	"	24	"	92	366	00
Golden Lion B. Co., Ltd	"	22	"	"	"	"	"	24	"	92	280	35
Regina B. Co., Ltd	"	22	"	"	"	"	"	24	"	92	345	00
Hoechen Wentzler B. Co., Ltd.	"	22	"	"	"	"	"	24	"	92	795	00
Pilsener B. Co., Ltd., The	"	23	Victoria	"	"	"	"	24	"	92	90	00
Union Brewing Co., Ltd	"	23	"	"	"	"	"	24	"	92	446	14
Victoria Phoenix B. Co., Ltd.	"	23	"	"	"	"	"	24	"	92	840	00
Silver Spring B., Ltd.	"	23	"	"	"	"	"	24	"	92	870	00
Canada Malting Co., Ltd., The	"	23	Hamilton	"	"	"	"	24	"	92	402	10
Hamilton B. Ass., Ltd., The	"	23	"	"	"	"	"	24	"	92	869	82
Grants' Spring B. Co., Ltd.	"	23	"	"	"	"	"	24	"	92	1,509	55
Victoria Phoenix B. Co., Ltd.	"	23	Victoria	"	"	"	"	24	"	92	399	00
Hiesz & Tiede	"	24	Owen Sound	"	"	"	"	24	"	92	153	39
Begg, G. C.	"	24	London	"	"	"	"	24	"	92	165	00
Hamilton, J.	"	24	"	"	"	"	"	24	"	92	94	50
Labatt, John	"	24	"	"	"	"	"	24	"	92	1,875	93
Carling, T. H	"	24	"	"	"	"	"	24	"	92	1,898	24
Golden Lion B. Co., Ltd	"	24	Montreal	"	"	"	"	24	"	92	345	00
Mongeau, V	"	24	"	"	"	"	"	24	"	92	75	00
National Breweries, Ltd.	"	24	"	"	"	"	"	24	"	92	4,451	68
Molson, H.	"	24	"	"	"	"	"	24	"	92	4,804	49

EXCISE—*Concluded.*

Articles.	To whom paid	Date.	Division.	Under what Authority Refunded.	Amounts.	Totals.
		1914.			$ cts	$ cts.
Malt—*Continued*...	Canada Malting Co., Ltd., The	April 24..	Montreal.....	Refunded under Revised Statutes, cap. 24 sec. 92....	11,695 92	
	Kerrigan, J	" 24..	Vancouver	" " 24 " 92..	3 00	
	Cranbrook B. Co.....	" 24..	"	" " 24 " 92....	30 00	
	Fernie-Fort Steele Brewing Co., Ltd.....	" 24..	"	" " 24 " 92....	351 70	
	Hartinger, F	" 24..	"	" " 24 " 92....	16 50	
	Weiland, C.....	" 24..	"	" " 24 " 92....	3 00	
	Imperial B. Co	" 24..	"	" " 24 " 92....	110 02	
	Forselmer, L...	" 24..	"	" " 24 " 92....	4 50	
	Elk Valley B. Co., Ltd., The	" 24..	"	" " 24 " 92....	169 99	
	Nelson Brewing Co., Ltd....	" 24..	"	" " 24 " 92....	182 25	
	Nelson, Nels.....	" 24..	"	" " 24 " 92....	255 00	
	Nelson Brewing Co., Ltd ...	" 24..	"	" " 24 " 92 ...	50 25	
	Enterprise B. Co., Ltd., The	" 24..	"	" " 24 " 92 ..	78 35	
	Henderson, H	" 24..	"	" " 24 " 92....	88 90	
	Mueller, A.....	" 24.	"	" " 24 " 92....	30 00	
	British Columbia Dis. Co., Ltd., The...	" 24..	"	" " 24 " 92....	56 66	
	Phoenix B. Co., Ltd., The...	" 24..	"	" " 24 " 92.. .	180 00	
	Vancouver Breweries, Ltd...	" 24..	"	" " 24 " 92 ...	1,260 00	
	Canadian B. & M. Co., Ltd..	" 24..	"	" " 24 " 92....	2,131 34	
	Berlin Lion B. Ltd., The....	" 30..	Guelp	" " 24 " 92...	1,335 00	
	Luth, W. H	" 30..	"	" " 24 " 92....	54 70	
	Bernhart, V. P.....	" 30..	"	" " 24 " 92 ..	188 25	
	Bauer, A.....	" 30..	"	" " 24 " 92....	1,463 09	
	Holliday. W. R.	" 30..	"	" " 24 " 92...	377 98	
	Sleeman, H. O.....	" 30..	"	" " 24 " 92....	197 79	
	New Ontario B. Co., Ltd., The.....	" 30..	Perth	" " 24 " 92....	201 22	
	Sudbury B. & M. Co., Ltd..	" 30 .	"	" " 24 " 92....	1,792 50	
	National Breweries, Limited, The.....	" 30..	Quebec..... ..	" " 24 " 92....	776 83	
	Brasserie Champlain, Ltd., La	" 30..	"	" 24 " 92...	1,330 50	
						118,968 77

		1913									
Tobacco	Fair, T. J. & Co., Ltd	May	26	Brantford	Refunded under Revised Statutes, cap.	24,	sec.	92	16 80		
	Imperial Tobacco Co., of Canada, Ltd	July	8	Montreal	"	24,	"	92	554 57		
	" "	Oct.	1	"	"	24,	"	92	108 09		
	" "	"	1	"	"	24,	"	92	155 00		
	Henry, James	Nov.	11	"	"	21,	"	92	4 14		
	Imperial Tobacco Co., of Canada, Ltd	"	26	"	"	24,	"	92	308 28		
		1914.									
	" "	Jan.	16	"	"	24,	"	92	567 53		
	" "	Feb.	13	"	"	24,	"	92	416 15		
	Henry, James	"	13	"	"	24,	"	92	2 20		
	Cooke, H. E	Mar.	5	Owen Sound	"	24,	"	92	5 88		
	"	April	11	"	"	24,	"	92	1 62		
	Imperial Tobacco Co., of Canada, Ltd	"	15	Montreal	"	24,	"	92	108 72		
											2,251 89
Cigars	Imperial Tobacco Co., of Canada, Ltd	1913. Nov.	26	"	"	24,	"	92			8 10
Officer's salary	Durocher, A	May	5	"	"	21,	"	92			300 00
		1914.									
Excise Revenue on account of Stamps	Shaw, H. V	Feb.	17	Calgary	"	24,	"	92			10 00
		1913.									
Excise Revenue on account of Bonded W. H. Licenses	Arnold, H. R	Aug.	8	"	"	24,	"	92			50 00
					Grand total for Excise						152,686 12
Weight & Measures	Campbell, D. A	"	8	Pictou	"	24,	"	92			6 35
Gas Inspection	Union Gas Co., Ltd	May	9	Windsor	"	24,	"	92	19 00		
		Oct.	31	Quebec	"	24,	"	92	9 00		
											28 00
Adulteration of Food	Fretz, Ltd	June	4	Hamilton	"	24,	"	92	5 00		
	Kidd, W. J	Dec.	13	Ottawa	"	24,	"	92	50 00		
											55 00
					Grand total						152,775 47

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

DR. No. 16.—DEPARTMENTAL EXPENDITURES FOR 1913-1914. CR.

Due by sundry persons, April 1, 1913.	Disbursed by the Receiver General.	Deductions for			Totals.		Salaries.	Contingencies.	Due by sundry persons, March 31, 1914.	Totals.
		Superannuation.	Insurance.	Retirement.						
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.
.....	7,000 00	.....	.....	.....	7,000 00	....Minister of Inland Revenue.....	7,000 00	.....	.....	7,000 00
.....	95,319 99	532 75	445 92	3,231 48	99,530 14	....Departmental officers.....	99,530 14	.....	.....	99,530 14
.....	349 22	.....	.....	.....	349 22	...Subscription to newspapers.....	.....	349 22	.....	349 22
.....	3,253 81	.....	.....	.....	3,253 81	....Extra clerks.....	.....	3,253 81	.....	3,253 81
.....	336 42	.....	.....	.....	336 42	....Telegraph companies	.....	336 42	.....	336 42
.....	153 95	.....	.....	.....	153 95	.. Books and Parliamentary publications	.....	153 95	.....	153 95
.....	2,290 24	.....	.....	.....	2,290 24	...Stationery	.....	2,290 24	.....	2,290 24
.....	1,844 73	.....	.....	.....	1,844 73	....Printing.....	.....	1,844 73	.....	1,844 73
.....	744 40	.....	.....	.....	744 40	.. Sundry persons.....	.....	744 40	.....	744 40
16 66	.....	.....	.....	.....	16 66	....Balance due.....	.....	.....	16 66	16 66
16 66	111,292 76	532 75	445 92	3,231 48	115,519 57	.....Totals	106,530 14	8,972 77	16 66	115,519 57

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

WEIGHTS AND MEASURES, GAS, ELECTRIC LIGHT AND LAW STAMPS.

No. 17.—Statement showing amount of Revenue accrued during the year ended March 31, 1914.

Dr.

	Weights and Measures Stamps.	Gas Stamps.	Electric Light Stamps.	Law Stamps.			Totals.
				Supreme Court.	Exchequer Court.	Territorial Court.	
	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
To amount of stamps in the hands of distributors April 1, 1913	126,984 41	105,553 55	119,833 45	54 65	53 80	5,867 80	358,347 66
To stamps issued by the Inland Revenue Department during the year ended March 31, 1914	99,507 50	46,549 56	78,085 00	2,300 00	5,290 00	.....	231,732 00
Totals	226,491 91	152,103 05	197,918 45	2,354 65	5,343 80	5,867 80	590,079 66

Cr.

By amount of stamps destroyed and returned by distributors	160 70	2,180 60	74 70	.....	.....	.....	2,416 00
By amount of stamps remaining in hands of distributors, March 31, 1914	115,567 12	87,119 55	117,852 30	56 95	128 50	4,142 05	324,866 47
By balance being the revenue during the year ended March 31, 1914	110,764 09	62,802 90	79,991 45	2,297 70	5,215 30	1,725 75	262,797 19
Totals	226,491 91	152,103 05	197,918 45	2,354 65	5,343 80	5,867 80	590,079 66

Inland Revenue Department,
Ottawa, June 1, 1914.

W. HIMSWORTH,
Deputy Minister

DR. WEIGHTS AND MEASURES, 1913 14. CR.

No. 18 (A.)—INSPECTION DIVISIONS in Account with Revenue.

Balances due by Inspectors, April 1, 1913.		Stamps issued to Inspectors.	Other Receipts.	Seizures and Penalties.	Totals.	Divisions.	Damaged Stamps.	Deposited to the Credit of the Receiver General.	Balances due by Inspectors, March 31, 1914.		Totals.
Stamps on hand.	Cash on hand.								Stamps on hand.	Cash on hand.	
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
3,420 50		5,200 00	5 00		8,625 50	Belleville		3,215 15	5,410 35		8,625 50
4,310 41		10,580 00	12		14,890 56	Hamilton		9,658 52	5,232 04		14,890 56
1,058 35		3,007 50			4,065 85	Kingston		3,141 00	924 85		4,065 85
11,435 05		11,560 00	15		22,995 20	London		11,813 90	11,181 30		22,995 20
6,361 81		4,930 00	150 00	100 00	11,541 81	Ottawa	18 45	6,331 23	5,162 13		11,541 81
9,211 36		10,875 00		30 00	20,116 36	Toronto		13,193 78	6,922 58		20,116 36
35,797 51		46,152 50	155 27	130 00	82,235 28	*Ontario*	48 45	47,353 58	34,833 25		82,235 28
42,670 85					42,670 85	Montreal		13,308 15	29,362 70		42,670 85
4,857 50		3,915 00			8,772 50	Quebec		5,176 75	3,587 90	7 85	8,772 50
3,250 70		6,922 50		5 00	10,178 20	Sherbrooke		7,820 50	2,357 70		10,178 20
2,812 50	23 65	2,260 00			5,096 15	St. Hyacinthe		1,528 75	3,567 40		5,096 15
1,923 55		1,532 50			3,456 05	Three Rivers		2,069 00	1,387 05		3,456 05
55,515 10	23 65	14,630 00		5 00	70,173 75	*Quebec*		29,903 15	40,262 75	7 85	70,173 75
1,439 36	141 30	2,605 00			4,185 66	*St. John, N.B.*		2,576 26	1,609 40		4,185 66
2,647 19		2,420 00			5,067 19	Halifax		1,257 75	3,809 44		5,067 19
3,319 75		2,017 50			5,337 25	Pictou	8 05	1,905 40	3,423 80		5,337 25
5,966 94		4,437 50			10,404 44	*Nova Scotia*	8 05	3,163 15	7,233 21		10,404 41
715 22		352 50			1,067 72	*Charlottetown, P.E.I*		495 22	572 50		1,067 72
9,222 25		11,020 00			20,242 25	*Winnipeg, Man*		10,564 09	9,678 16		20,242 25

7,705 65		6,190 00			13,895 65	*Saskatoon, Sask.*	104 20	7,691 05	6,100 40		13,895 65
2,617 03		9,425 00			12,042 03	*Calgary, Alta.*		5,511 71	6,530 32		12,042 03
2,348 45		1,742 50			4,090 95	Nelson		1,282 90	2,808 05		4,090 95
3,415 90		2,952 50			6,368 40	Vancouver		2,670 35	3,698 05		6,368 40
5,764 35		4,695 00			10,459 35	*British Columbia*		3,953 25	6,506 10		10,459 35
2,241 00					2,241 00	*Dawson, Yukon*			2,241 00		2,241 00
126,984 41	164 95	99,507 50	155 27	135 00	226,947 13		160 70	111,211 46	115,567 12	7 85	226,947 13
					6 35	Less Refunds, as per Statement No. 15,		6 35			6 35
					226,940 78	Totals		111,205 11			226,940 78
					2,650 94	Milk testing glasses		2,650 94			2,650 94
					229,591 72			113,856 05			229,591 72

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

WEIGHTS AND MEASURES, 1913-1914.

No. 18 (B).—Deputy Inspectors of Old Divisions in Account with Revenue.

Dr.			Cr.	
Balances due April 1, 1913. — Cash on hand.	Totals.	Divisions.	Balances due March 31, 1914. — Cash on hand.	Totals
$ cts.	$ cts.		$ cts.	$ cts.
87 10	87 10	Essex, Ont.	87 10	87 10
5 62	5 62	Hull, Que.	5 62	5 62
92 72	92 72		92 72	92 72

W. HIMSWORTH,

Deputy Minister.

Inland Revenue Department,

Ottawa, June 1, 1914.

WEIGHTS AND MEASURES—1913-1914.

DR. No. 19 (A)—INSPECTION DIVISIONS in Account with Expenditures. CR.

Balances due by Inspectors, April 1, 1913.	Amounts received from Department to meet expenditures.	Deductions from Salaries for			Totals,		Expenditures Authorized by the Department.							Balances due by Inspectors, March 31, 1914.	Totals.
		Superannuation.	Insurance.	Guarantee			Salaries.	Special Assistance	Seizures.	Rent.	Travelling Expenses.	Sundries.			
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.
.....	5,575 74	10 64	.....	7 65	5,594 03	..Belleville	3,133 08	540 83	....	466 00	1,096 55	357 57		.....	5,594 03
.....	8,866 31	.....	.....	14 40	8,880 71	..Hamilton	7,199 52	42 39	....	.....	1,523 95	114 94		.....	8,880 71
.....	3,388 64	.....	.....	6 00	3,394 64	..Kingston	1,966 58	400 00	....	.....	944 65	83 41		.....	3,394 64
.....	8,797 59	.....	.....	11 25	8,808 84	..London	5,252 19	692 62	....	153 00	2,494 94	216 09		.....	8,808 84
.....	9,451 60	31 97	.....	12 60	9,496 17	..Ottawa	5,750 24	1,425 92	1 10	.....	2,214 55	104 36		.....	9,496 17
.....	10,450 76	21 96	.....	15 90	10,488 62	..Toronto	7,960 39	226 66	....	.....	2,206 24	95 33		.....	10,488 62
.....	46,530 64	64 57	.....	67 80	46,663 01	.. *Ontario*	31,262 00	3,328 33	1 10	619 00	10,480 88	971 70		.....	46,663 01
.....	14,137 88	25 65	.....	17 25	14,180 78	..Montreal	9,241 42	749 04	....	1,291 64	2,656 82	241 86		.....	14,180 78
.....	12,760 33	38 40	.....	15 60	12,814 33	..Quebec	6,845 21	3,169 62	....	400 00	2,227 22	172 28		...	12,814 33
.....	4,255 88	.....	.....	7 65	4,263 53	..St. Hyacinthe	3,149 84	430 00	....	.....	636 42	47 27		.....	4,263 53
.....	5,659 52	.....	.....	6 90	5,666 42	..Sherbrooke	2,833 22	1,163 33	....	600 00	990 81	79 06		.....	5,666 42
.....	2,914 83	.....	66 00	5 40	2,986 23	..Three Rivers	1,849 92	.....	....	.....	1,063 45	72 86		.....	2,986 23
.....	39,728 44	64 05	66 00	52 80	39,911 29	....*Quebec*	23,919 61	5,511 99	....	2,291 64	7,574 72	613 33		.....	39,911 29
.....	5,017 28	.....	.....	10 50	5,027 78	....*St. John, N.B.*	4,449 80	100 00	....	.....	376 24	101 74		.....	5,027 78
.....	4,275 64	.....	.....	7 20	4,282 84	.. Halifax	2,399 88	859 92	....	507 36	428 93	86 75		.....	4,282 84
.....	4,273 90	27 96	.....	6 90	4,308 76	Pictou	2,908 21	492 33	....	.....	733 70	174 52		..	4,308 76
.....	8,549 54	27 96	.....	14 10	8,591 60	....*Nova Scotia*	5,308 09	1,352 25	....	507 36	1,162 63	261 27		.....	8,591 60
.....	2,273 00	.....	.....	5 40	2,278 40	....*Charlottetown, P.E.I.*	1,949 88	60 00	....	.....	254 53	13 99		.....	2,278 40

WEIGHTS AND MEASURES—1913 1914.

DR. No. 19 (A)—INSPECTION DIVISIONS in Account with Expenditures—*Concluded.* CR.

Balances due by Inspectors, April 1, 1913.	Amounts received from Department to meet expenditures.	Deductions from Salaries for			Totals.		Expenditures Authorized by the Department.						Balances due by Inspectors, March 31, 1914.	Totals.
		Superannuation.	Insurance.	Guarantee			Salaries.	Special Assistance	Seizures.	Rent.	Travelling Expenses.	Sundries.		
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
.....	9,914 82	.....	.....	14 10	9,928 92	....*Winnipeg, Man.*	6,949 82	150 00	....	... ..	2,630 45	198 65	... .	9,928 92
.....	6,124 18	31 92	.....	4 50	6,160 60	....*Calgary, Alberta*....	2,199 96	1,506 57	1 10	..... .	2,322 64	130 33	. .	6,160 60
3 70	8,448 09	.....	... ...	6 00	8,457 79	...*Saskatoon, Sask*.....	2,975 11	1,887 59	...	..... .	3,286 49	304 90	3 70	8,457 79
...	4,048 31	....	.....	3 60	4,051 91	..Nelson	1,249 92	607 50	....	180 00	1,878 40	136 09	.....	4,051 91
.....	3,129 73	.....	.....	7 20	3,136 93	Vancouver...	2,399 88	20 00	....	....	219 10	467 95	.....	3,136 93
...	7,178 04	.....	.....	10 80	7,188 84	.. .*British Columbia*....	3,649 80	627 50	....	180 00	2,127 50	604 04	.....	7,188 84
.....	747 59	.....	.....	2 70	750 29	...*Dawson, Yukon*....	750 29	....	....	....	....	....	.....	750 29
3 70	134,511 62	188 50	66 00	188 70	134,958 52		83,414 36	14,524 23	2 20	3,598 00	30,216 08	3,199 95	3 70	134,958 52
.....	516 45	.....	.....	....	516 45	. Chief Inspector.....	....	.....	....	.....	449 08	67 37	....	516 45
.....	4,163 39	.....	.....	.....	4,163 39	..General Contingencies.	.....	.....	...	.....	.....	4,163 39		4,163 39
..	1,955 49	... ..	.....	... .	1,955 49	..Printing.....	.....	.....	...	.....	.. ..	1,955 49	... ..	1,955 49
.....	525 02	.....	.....	... ..	525 02	..Stationery.....	.....	.....	..	... .	....	525 02	.....	525 02
.....	2,606 40	.....	.....	.....	2,606 40	..Provisional allowance	....	.. ...	...	.....	.. ..	2,606 40	...	2,606 40
....	268 40	.....	.....	.....	268 40	..International Bureau of Weights & Measures.	.....	.....	....	... .	....	268 40	.	268 40
3 70	144,546 77	188 50	66 00	188 70	144,993 67	.....Grand totals	83,414 36	14,524 23	2 20	3,598 00	30,665 16	12,786 02	3 70	144,993 67

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

WEIGHTS AND MEASURES, 1913-14.

DR. No. 19 (B).—OLD INSPECTION DIVISIONS in Account with Expenditures. CR.

Balances due by sundry persons, April 1, 1913.	Totals.	Divisions	Balances due by sundry persons, March 31, 1914.	Totals.
$ cts.	$ cts.		$ cts.	$ cts.
39 56	39 56	Essex	39 56	39 56
33 53	33 53	Waterloo	33 53	33 53
73 09	73 09	*Ontario*	73 09	73 09
0 33	0 33	Drummond	0 33	0 33
41 45	41 45	Laval	41 45	41 45
26 88	26 88	Montmorency	26 88	26 88
27 51	27 51	Richelieu	27 51	27 51
96 17	96 17	*Quebec*	96 17	96 17
24 00	24 00	Lunenburg, Nova Scotia	24 00	24 00
193 26	193 26	Totals	193 26	193 26

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914,

W. HIMSWORTH,
Deputy Minister.

DR. No. 20.—INSPECTION DISTRICTS in Account with Revenue. CR.

Balances due by Inspectors. April 1, 1913.		Stamps issued to Inspectors.	Transfers.	Other Receipts.	Totals.	Districts.	Transfers.	Damaged Stamps.	Deposited to the credit of the Receiver General.	Balances due by Inspectors. March 31, 1914.		Total.
Stamps on hand.	Cash on hand.									Stamps on Hand.	Cash on hand.	
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
899 70					899 70	Barrie	899 70					899 70
567 05		780 00	5,709 90		7,056 95	Belleville		66 50	1,755 40	5,235 05		7,056 95
1,542 70					1,542 70	Berlin	1,497 50		45 20			1,542 70
2,406 50					2,406 50	Brockville	2,399 30		7 20			2,406 50
302 45					302 45	Cobourg	293 45		9 00			302 45
854 80					854 80	Cornwall	854 80					854 80
817 25					817 25	Guelph	802 25		15 00			817 25
6,472 80		880 00	1,497 50		8,850 30	Hamilton			7,479 10	1,371 20		8,850 30
1,999 30					1,999 30	Kingston	1,984 30		15 00			1,999 30
215 30					215 30	Listowel	215 30					215 30
3,882 20		6,500 00	4,121 00		14,503 20	London		235 30	5,900 60	8,367 30		14,503 20
195 50					195 50	Napanee	195 50					195 50
5,087 95		3,000 00	854 80		8,942 75	Ottawa		854 80	3,126 60	4,961 35		8,942 75
529 80					529 80	Owen Sound	521 80		8 00			529 80
858 35					858 35	Peterborough	837 35		21 00			858 35
1,035 40					1,035 40	Sarnia	1,001 50		33 90			1,035 40
1,819 05					1,819 05	Stratford	1,819 05					1,819 05
6,980 25		10,800 00	2,223 75		20,004 00	Toronto		864 50	15,888 00	3,251 50		20,004 00
4,101 95					1,101 95	Woodstock	1,085 15		16 80			1,101 95
37,568 30		21,960 00	14,406 95		73,935 25	*Ontario*	14,406 95	2,021 10	34,320 80	23,186 40		73,935 25
2,746 70		16,714 00			19,490 70	Montreal			17,812 70	1,678 00		19,490 70
3,251 60					3,251 60	Quebec			751 90	2,499 70		3,251 60
526 60		600 00			1,126 60	Sherbrooke			159 60	967 00		1,126 60
994 80					994 80	St. Hyacinthe			131 40	863 40		994 80
7,519 70		17,344 00			24,863 70	*Quebec*			18,855 60	6,008 10		24,863 70
575 75					575 75	Fredericton	575 75					575 75
788 25		910 00	575 75		2,274 00	St. John			968 40	1,305 60		2,274 00

1,364 00		910 00	575 75		2,849 75	*New Brunswick*	575 75		968 40	1,305 60	2,849 75
1,036 10		500 00			1,536 10	*Halifax, N.S*			356 90	1,179 20	1,536 10
1,169 05		300 00			1,469 05	*Charlottetown, P.E.I.*			51 00	1,418 05	1,469 05
41,877 65					41,877 65	*Winnipeg, Man.*			3,317 00	38,560 65	41,877 65
10,286 90				107 00	10,393 90	Calgary			806 40	9,587 50	10,393 90
		2,015 50			2,015 50	Edmonton				2,015 50	2,015 50
10,286 90		2,015 50		107 00	12,409 40	*Alberta*			806 40	11,603 00	12,409 40
161 55					161 55	Nanaimo	161 55				161 55
840 50					840 50	New Westminster	840 50				840 50
2,585 00		2,400 00	840 50		5,825 50	Vancouver		159 50	3,304 40	2,361 60	5,825 50
1,144 80		1,120 00	161 55		2,426 35	Victoria			929 40	1,496 95	2,426 35
4,731 85		3,520 90	1,002 05		9,253 90	*British Columbia*	1,002 05	159 50	4,233 80	3,858 55	9,253 90
105,553 55		46,549 50	15,984 75	107 00	168,194 80	Grand totals	15,984 75	2,180 60	62,909 90	87,119 55	168,194 80
					28 00	Less Refunds, as per Statement No. 15			28 00		28 00
					168,166 80				62,881 90		168,166 80

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1914.

W. HIMSWORTH,

Deputy Minister.

GAS INSPEC

No. 21— Inspection Districts in

Balances due by Inspectors, April 1, 1913.	Amounts received from Department to meet Expenditures.	Deductions from Salaries for			Totals.	Districts.
		Superannuation.	Retirement.	Guarantee.		
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	
	850 67	1 92		7 65	860 24	Belleville
	5,585 82			11 40	5,597 22	Hamilton
	4,452 63			18 00	1,470 65	London
	5,866 00			10 96	5,876 96	Ottawa
	11,948 16	7 92	89 98	29 70	12,075 76	Toronto
	28,703 28	9 84	89 98	77 71	28,880 81	*Ontario*
	7,553 08			14 22	7,567 30	Montreal
	2,372 82	17 50		7 20	2,397 52	Quebec
	490 56	3 96		5 40	499 92	Sherbrooke
	98 16			1 80	99 96	St. Hyacinthe
	10,514 62	21 46		28 62	10,564 70	*Quebec*
	98 16			1 80	99 96	Fredericton
	1,560 05			3 60	1,563 65	St. John
	1,658 21			5 40	1,663 61	*New Brunswick*
	2,982 44	1 92		7 20	2,991 56	Halifax
12 88					12 88	Pictou
12 88	2,982 44	1 92		7 20	3,004 44	*Nova Scotia*
	496 32			3 60	499 92	*Charlottetown, P.E.I.*
	5,239 76			10 14	5,249 90	*Winnipeg, Man*
	402 64				402 64	Calgary
	14 38				14 38	Edmonton
	417 02				417 02	*Alberta*
	46 59		2 49	90	49 98	New Westminster
	139 65				139 65	Vancouver
	1,506 53			7 20	1,513 73	Victoria
	1,692 77		2 49	8 10	1,703 36	*British Columbia*
12 88	51,704 42	33 22	92 47	140 77	51,983 76	
200 00					200 00	General
	175 65				175 65	Eastern Dominion Inspection
	499 80				499 80	Western " "
	5,486 40				5,486 40	General Contingencies
	3,328 66				3,328 66	Printing
	1,418 08				1,418 08	Stationery
212 88	62,613 01	33 22	92 47	140 77	63,092 35	*Grand Total*

Inland Revenue Department,
Ottawa, June 1, 1914.

SESSIONAL PAPER No. 12

TION 1913–14.

ACCOUNT WITH EXPENDITURES.

Expenditures Authorized by the Department.						
Salaries.	Special. Assistance.	Rent.	Travelling Expenses.	Sundries.	Balances due by Inspectors March 31, 1914.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
324 96	101 50	200 00	152 53	81 25	.....	860 24
3,433 31	1,357 95	120 00	493 85	192 11	.....	5,597 22
3,370 51	476 74	19 50	493 35	110 53	.....	4,470 63
4,433 22	955 00	420 00	.....	68 74	.....	5,876 96
11,391 19	449 98	.....	80 55	154 04	.....	12,075 76
22,953 19	3,341 17	759 50	1,220 28	606 67	.....	28,880 81
7,062 65	72 00	240 00	49 50	143 15	.....	7,567 30
1,999 92	45 00	150 00	5 80	196 80	.....	2,397 52
499 92	.....	.....	.....	.....	.....	499 92
99 96	.....	.....	.....	.....	.....	99 96
9,662 45	117 00	390 00	55 30	339 95	.....	10,564 70
99 96	.....	.....	.....	.....	.....	99 96
1,399 94	.....	.....	106 31	57 40	.....	1,563 65
1,499 90	.....	.....	106 31	57 40	.....	1,663 61
2,399 90	.....	507 36	84 30	.....	.....	2,991 56
.....	.....	.....	.....	.....	12 88	12 88
2,390 90	.....	507 36	84 30	.....	12 88	3,004 44
499 92	.....	.....	.....	.....	.....	499 92
5,249 90	.....	.....	.....	.....	.....	5,249 90
.....	112 25	.....	134 45	155 94	.....	402 64
.....	.....	.....	.....	14 38	.....	14 38
.....	112 25	.....	134 45	170 32	.....	417 02
49 98	.....	.....	.....	.....	.....	49 98
.....	48 00	.....	.....	91 65	.....	139 65
1,499 88	.....	.....	8 85	5 00	.....	1,513 73
1,549 86	48 00	.....	8 85	96 65	.....	1,703 36
43,815 12	3,618 42	1,656 86	1,609 49	1,270 99	12 88	51,983 76
.....	.....	.....	.....	.....	200 00	200 00
.....	.....	.....	175 65	.....	.....	175 65
.....	5 55	.....	376 80	117 45	.....	499 80
.....	.....	.....	.....	5,486 40	.....	5,486 40
.....	.....	.....	.....	3,328 66	.....	3,328 66
.....	.....	.....	.....	1,418 08	.....	1,418 08
43,815 12	3,623 97	1,656 86	2,161 94	11,621 58	212 88	63,092 35

W. HIMSWORTH,
Deputy Minister.

5 GEORGE V., A. 1915

ELECTRIC LIGHT

DR. No. 22.—INSPECTION DISTRICTS

Balances due by Inspectors, April 1, 1913.		Stamps issued to Inspectors.	Totals.	Districts.
Stamps on hand.	Cash on hand.			
$ cts.	$ cts	$ cts	$ cts.	
2,004 30		2,000 00	4,004 30	Belleville
4,381 80			4,381 80	Fort William
3,870 50		5,400 00	9,270 50	Hamilton
2,470 45		6,900 00	9,370 45	London
4,715 60		3,150 00	7,865 60	Ottawa
5,238 75		15,600 00	20,838 75	Toronto
22,681 40		33,050 00	55,731 40	*Ontario*
6,027 30		12,350 00	18,377 30	Montreal
1,818 15		1,200 00	3,018 15	Quebec
855 25		1,800 00	2,655 25	Sherbrooke
793 50		1,680 00	2,473 50	St. Hyacinthe
1,227 60			1,227 60	Three Rivers
10,721 80		17,030 00	27,751 80	*Quebec*
878 30		1,750 00	2,628 30	*St. John, N.B.*
1,544 95		1,400 00	2,944 95	*Halifax, N.S.*
785 40		780 00	1,565 40	*Charlottetown, P.E.I.*
53,729 85		6,000 00	59,729 85	*Winnipeg, Man.*
12,390 20		375 00	12,765 20	*Regina, Sask*
3,964 55		5,600 00	9,564 55	Calgary
3,345 15		3,950 00	7,295 15	Edmonton
7,309 70		9,550 00	16,859 70	*Alberta*
6,097 85		6,000 00	12,097 85	Vancouver
2,344 00		2,150 00	4,494 00	Victoria
8,441 85		8,150 00	16,591 85	*British Columbia*
1,350 00			1,350 00	Yukon
119,833 45		78,085 00	197,918 45	
			450 00	Export of Electric Power Licenses
			35 05	Electrical Standards, Laboratory Fees
119,833 45		78,085 00	198,403 50	*Grand Totals*

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1914.

SESSIONAL PAPER No. 12

INSPECTION, 1913–1914.

in Account with Revenue. CR.

Damaged Stamps.	Deposited to the Credit of the Receiver General.	Balance due by Inspectors, March 31, 1914		Totals.
		Stamps on hand.	Cash on hand.	
$ cts.	$ cts	$ cts.	$ cts.	$ cts.
19 20	1,691 25	2,293 85		4,004 30
	1,816 45	2,565 35		4,381 80
	7,914 25	1,356 25		9,270 50
	4,864 20	4,506 25		9,370 45
	4,961 75	2,903 85		7,865 60
	15,487 45	5,351 30		20,838 75
19 20	36,735 35	18,976 85		55,731 40
	12,341 35	6,035 95		18,377 30
	1,383 20	1,634 95		3,018 15
	586 05	2,069 20		2,655 25
	702 15	1,771 35		2,473 50
55 50	105 95	1,066 15		1,227 60
55 50	15,118 70	12,577 60		27,751 80
	1,348 40	1,279 90		2,628 30
	1,905 75	1,039 20		2,944 95
	295 95	1,269 45		1,565 40
	7,054 10	52,675 75		59,729 85
	3,255 00	9,510 20		12,765 20
	2,294 25	7,270 30		9 564 55
	3,155 25	4,139 90		7,295 15
	5,449 50	11,410 20		16,859 70
	6,142 20	5,955 65		12,097 85
	2,686 50	1,807 50		4,494 00
	8,828 70	7,763 15		16,591 85
		1,350 00		1,350 00
74 70	79,991 45	117,852 30		197,918 45
	450 00			450 60
	35 05			35 05
74 70	80,476 50	117,852 30		198,403 50

W. HIMSWORTH,
Deputy Minister.

ELECTRIC LIGHT INSPECTION, 1913-1914.

DR. No. 23.—INSPECTION DISTRICTS in Account with Expenditures. CR.

Amounts received from Department to meet expenditures.	Retirement.	Guarantee.	Totals.	Districts.	Expenditures Authorized by the Department.					Totals.
					Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	
$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
1,513 01		8 55	1,521 56	Belleville	1,299 93	5 00		206 55	10 08	1,521 56
1,567 48		3 60	1,571 08	Fort William	1,200 00	40 00		214 10	116 98	1,571 08
682 00			682 00	Hamilton				680 00	2 00	682 00
1,066 50			1,066 50	London		354 75		683 25	28 50	1,066 50
671 45			671 45	Ottawa				670 70	75	671 45
987 18			987 18	Toronto				906 55	80 63	987 18
1,131 48		1 80	1,133 28	E. A. Kinsman	1,133 28					1,133 28
7,619 10		13 95	7,633 05	*Ontario*	3,633 21	399 75		3,361 15	238 94	7,633 05
1,095 58			1,095 58	Montreal		971 94		99 15	24 49	1,095 58
687 00			687 00	Quebec		100 00	450 00	27 80	109 20	687 00
149 56			149 56	Sherbrooke				122 96	26 60	149 56
624 05		1 80	625 85	St. Hyacinthe	300 00			320 70	5 15	625 85
526 13		2 37	528 50	Three Rivers	350 75		125 00	40 35	12 10	528 50
3,082 32		4 17	3,086 49	*Quebec*	650 75	1,071 94	575 00	610 96	177 84	3,086 49
221 93			221 93	*St. John, N.B*				211 59	10 34	221 93
732 16			732 16	*Halifax, N.S.*		60 00		586 58	85 58	732 16
108 36			108 36	*Charlottetown, P.E.I.*		60 00		34 15	14 21	108 36
2,056 18			2,056 18	*Winnipeg, Man.*		1,233 24	300 00	379 10	143 84	2,056 18
3,084 07		5 40	3,089 47	Calgary	2,700 00	25 00		256 30	108 17	3,089 47
1,711 59		1 50	1,713 09	Edmonton	604 83			914 30	193 96	1,713 09
4,795 66		6 90	4,802 56	*Alberta*	3,304 83	25 00		1,170 60	302 13	4,802 56
3,024 87		4 20	3,029 07	*Regina, Sask. Moose Jaw, Sask.*	1,699 96			1,197 60	131 51	3,029 07

7,120 61	7 47	13 50	7,141 58	Vancouver	5,516 48	900 00		604 50	120 60	7,141 58
338 43			338 43	Victoria		48 00		179 10	111 33	338 43
7,459 04	7 47	13 50	7,480 01	*British Columbia*	5,516 48	948 00		783 60	231 93	7,480 01
372 58		2 70	375 28	*Yukon*	375 28					375 28
851 19			851 19	Chief Electrical Engineer		157 00		323 47	370 72	851 19
2,863 58		3 60	2,867 18	Inspector of Eastern Dominion	2,574 93			292 25		2,867 18
3,541 53		3 60	3,545 13	" Western "	2,574 93	499 98		371 96	98 26	3,545 13
36,728 50	7 47	52 62	36,788 59	Total for Districts, etc	20,330 37	4,454 91	875 00	9,323 01	1,805 30	36,788 59
10,788 27			10,788 27	General Contingencies					10,788 27	10,788 27
5 75			5 75	Printing					5 75	5 75
422 25			422 25	Stationery					422 25	422 25
243 61			243 61	International Electro-technical Commission					243 61	243 61
1,886 82			1,886 82	Provisional Allowance					1,886 82	1,886 82
50,075 20	7 47	52 62	50,135 29	Grand Total	20,330 37	4,454 91	875 00	9,323 01	15,152 00	50,135 29

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

No. 24.—STATEMENT showing the Amounts voted and the Expenditures for each service for the year ended March 31, 1914.

Services.	Grants.	Expenditures.	Over Expenditures.	Under Expenditures.
	$ cts	$ cts.	$ cts	$ cts.
Minister's salary	7,000 00	7,000 00		
Departmental salaries	115,450 00	99,530 14		15,919 86
" contingencies	10,000 00	8,972 77		1,027 23
Excise salaries	551,807 00	485,351 34		66,455 66
" contingencies	118,000 00	117,669 51		330 49
Duty-pay at large distilleries and other factories	15,000 00	13,303 08		1,696 92
Duty-pay other than special survey	1,500 00	1,300 00		200 00
Preventive service, salaries and contingencies	13,000 00	10,378 78		2,621 22
Tobacco stamps	120,000 00	120,000 00		
Excise Commission to Customs Officers	10,000 00	4,408 38		5,591 62
Tobacco stamps commission	100 00			100 00
Technical translation	200 00	125 77		74 23
Provisional allowance, Excise	10,000 00	9,439 96		560 04
" Weights and Measures	3,000 00	2,606 40		393 60
" Gas and Electric Light	4,000 00	1,886 82		2,113 18
Methylated Spirits, contingencies	105,000 00	96,128 20		8,871 80
Weights and Measures, salaries	85,890 00	83,414 36		2,385 64
" contingencies	67,000 00	58,700 81		8,299 19
Gas and Electric Light, salaries	67,100 00	64,145 49		2,954 51
" contingencies	55,000 00	46,738 84		8,261 16
Adulteration of food, salaries and contingencies	30,000 00	28,886 97		1,113 03
Minor expenditures	500 00	227 39		272 61
Export of electric power	1,000 00	93 30		906 70
International Bureau of Weight and Measures	400 00	268 40		131 60
Proprietary or patent medicines	1,500 00	1,087,91		412 09
International Electro-Technical Commission	300 00	243 61		56 39
	1,392 657 00	1,261,908 23		130,748 77

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

DR. No. 25—STATEMENT showing the transactions in connection with the manufacture of Methylated Spirits for the year ended March 31, 1914. CR.

	Amounts.	Totals.
	$ cts.	$ cts.
To stock on hand on March 31, 1913:—		5,451 54
3,257·43 Proof Galls=Methylated Spirits=1,967·05 Std. Galls.		
1,056·45 Std. Galls at 55c	581 04	
910·60 " at 65c	591 89	
Alcohol 5847·13 Proof Galls. at 20c	1,169 43	
Wood Naphtha 1,892·88 Proof Galls=1,120·76 Std. Galls at 74c.	829 36	
Pyrodine in stock	479 82	
Barrels on hand 266 at $4. Drums 72 at $10; 4 at $4	1,800 00	
Methylated sold and not paid up to March 31, 1913:—		2,626 21
Std. Galls 3786·05=6269 73 Proof Galls.		
901·04 Std. Galls at 53c	477 55	
1,021·61 " at 55c.	561 88	
79·18 " at 60c.	47 51	
876·44 " at 63c.	552 16	
617·14 " at 65c.	401 13	
290·64 " at 75c.	217 98	
Barrels, 62 at $4. Drums, 12 at $10	368 00	
Disbursements for purchases of material, &c		90,093 85
Alcohol 218,739·04 Proof Galls at 20c.	43,747 80	
Wood Naphtha 22,951·27 Std. Galls=38,574·53 Proof Galls.		
17,040·61 Std. Galls at 74c	12,610 04	
5,910·66 " at 71c	4,196 56	
Gasoline 818·7 Galls. 93·7 at 26½, 48·4 at 27c.; 45·2 at 27½c.; 225·4 at 28c.; 270·1 at 29c.; 135·2 at 29½c. =$231.68 less barrels returned $23.95=	207 73	
Barrels, 5,590 at $4. Drums, 717 at $10	29,530 00	
	90,992 13	
Less freight and cartage	198 28	
	90,093 85	

	Amounts.	Totals.
	$ cts.	$ cts.
By cash received on account of Methylated Spirits, &c., sold during the year ended March 31, 1914.		116,208 38
Methylated Spirits 146,064·69 Std. Galls.=241,883·64 Proof Galls:		
30,974·69 Std. Galls. at 53c.	16,416 62	
41,911·54 " at 55c.	23,051 40	
819·13 " at 60c.	491 48	
21,960·57 " at 63c.	13,835 21	
32,959·69 " at 65c.	21,423 62	
17,439·07 " at 75c.	13,079 28	
Barrels, 5,204 at $4. Drums, 703 at $10.	27,846 00	
11 Cans at $3.25	35 75	
1 Barrel of Alcohol sold 69·46 Proof Galls at 20c and barrel $4	17 89	
Freight on Drums	19 50	
	116,216 75	
Less allowance on quality of M.S (See letter No. 111,577)	8 37	
	116,208 38	
Methylated Spirits sold and unpaid March 31, 1914. 5421·75 Std. Galls.=8985·22 Proof Galls.		3,705 67
1,223·81 Std. Galls. at 53c.	648 63	
1,872·64 " at 53c (Winnipeg).	991 62	
428·41 " at 55c.	235 63	
42·26 " at 60c.	25 48	
719·71 " at 63c.	453 43	
775·08 " at 65c.	503 76	
359·84 " at 75c.	269 87	
Barrels, 48 at $4. Drums, 17 at $10 Can, 1 at $2.25	364 25	
Drums, 21 at $10 (Winnipeg)	210 00	
Barrels returned and unpaid for March 31, 1914, 180 at $4		720 00
Alcohol bought and unpaid for up to March 31, 1913		1,934 25

DR. No. 25—STATEMENT showing the transactions in connection with the manufacture of Methylated Spirits for the year ended March, 31, 1914—*Concluded.* CR.

	Amounts.	Totals.		Amounts.	Totals.
	$ cts.	$ cts.		$ cts.	$ cts.
To other expenses as follows:—			7,531·27 Proof Galls at 20c.	1,506 25	
Salaries (paid from depart. Civil Govt. Vote)	5,203 61	11,774 41	Barrels, 107 at $4	428 00	
Salaries (paid from Civ. Govt. Contingencies)	537 45				
Special assistance	110 00		Stock on hand March 31, 1914:—		6,607 30
Freight	4,574 40		5·344·70 Proof Galls. Methylated Spirits = to 3,227·45 Std. Galls.		
Stationery	18 73		1,896·90 Std. Galls. at 55c.	1,043 30	
Printing	78 05		661·10 " at 65c	429 71	
Sundries, including fuel, repairs, &c	1,252 17		669·45 " at 75c	502 09	
Net profits		19,229 59	Alcohol 3,858·54 Proof Galls at 20c	771 71	
			Wood Naphtha 4734·24 Proof Galls. = 2,818·7 Std Galls.		
			342·75 Std. Galls. at 74c	253 63	
			2,475·25 " at 71c	1,757 43	
			Barrels, 318 at $4. Drums, 56 at $10	1,832 00	
			Barrels destroyed 18		
			1 Barrel of Alcohol lost in transit = 67·15 Proof Galls. at 20c. and 1 barrel $4 = 17.43 (to be accounted for).	17 43	
			Alcohol used in manufacture 213,059·75 Proof Galls.		
Methylated Spirits manufactured during the year, 246,686·40 Proof Galls. = Std. Galls 148,960·79.			Wood Naphtha " 35,723·17 Proof Galls. = 21,254·03 Std. Galls.		
Total		129,175 60	Total		129,175 60

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.

STATISTICS

APPENDIX A.—SPIRITS.

No. 1.—Return of Manufactures for

Divisions.	Licenses.		Materials Taken for Use				
			Grain.				
	No.	Fees.	Malt.	Indian Corn.	Rye.	Oats.	Wheat
		$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs
Belleville, Ont	1	250	612,397	7,933,905	748,323	.....	.....
Guelph "	1	250	330,340	4,441,000	1,097,320	34,040	54,300
Hamilton "	1	250	188,650	3,188,450	573,055	26,950	334,895
Perth "	2	500	292,715	.....	.....	.....	.....
Prescott "	1	250	332,752	6,609,420	1,261,963	35,400	17,180
Toronto "	2	500	1,625,760	23,087,980	3,682,783	414,005	.....
Windsor "	1	250	1,320,900	22,476,000	4,889,200	187,300	.....
Totals	9	2,250	4,703,514	67,736,755	12,252,644	697,695	406,375
Joliette, Que	1	250	2,469,900	2,164,050	2,774,350	.....	.....
Montreal "	1	250	.....	.....	.....	.....	.....
Quebec "	1	250	.....	.....	.....	.....	.....
St. Hyacinthe, Que	1	250	138,350	2,159,940	242,710	.....	.....
Totals	4	1,000	2,608,250	4,323,990	3,017,060	.....	.....
Vancouver, B.C.	1	250	123,171	109,510	92,396	14,947	2,059,784
Grand Totals	14	3,500	7,434,935	72,170,255	15,362,100	712,612	2,466,162

No. 2.—Comparative Statement of Manufactures for

1913.							
Ontario	9	2,250	4,398,304	59,176,130	9,409,340	627,084	992,625
Quebec	4	1,000	2,139,625	3,817,550	2,245,475	.....	36,125
British Columbia	1	250	99,700	54,875	41,675	13,510	1,997,315
Totals	14	3,500	6,637,629	63,048,555	11,696,490	640,591	3,026,065
1914.							
Ontario	9	2,250	4,703,514	67,736,755	12,252,644	697,695	406,375
Quebec	4	1,000	2,608,250	4,323,990	3,017,060	.....	.....
British Columbia	1	250	123,171	109,510	92,396	14,947	2,059,787
Totals	14	3,500	7,434,935	72,170,255	15,362,100	712,642	2,466,162

Inland Revenue Department,
Ottawa, June 1, 1914.

the Fiscal Year ended March 31, 1914.

Total Grain.	Molasses.	Used in Spirits Manufactured.		Proof Spirits Manufactured	Duty Collected ex-Manufactory, on Deficiencies and Assessments.		Total Duty Collected ex-Manufactory, including License Fees.
		Grain.	Molasses.				
Lbs.	Lbs.	Lbs.	Lbs.	Galls.	Galls.	$ cts.	$ cts.
9,294,625	.....	9,273,625	.....	599,098·71	....	.....	250 00
5,957,000	....	5,978,000	.....	364,692·69	.....	.....	250 00
4,312,000	.....	4,311,600	.....	260,123·57	1,012·95	1,924 61	2,174 61
292,715	.....	290,032	.....	16,013·82	4·48	8 60	508 60
8,256,715	....	8,200,715	... .	493,407·86	.....	....	250 00
28,810,528	8,934,128	28,720,528	8,934,128	2,219,844·56	....	.....	500 00
28,873,400	..... .	28,873,400	.....	1,751,297 07	103·76	197 14	447 14
85,796,983	8,934,128	85,647,900	8,934,128	5,704,478·28	1,121·19	2,130 35	4,380 35
7,408,300	....	7,408,300	... .	378,729·54	.. ..	.....	250 00
.....	10,756,592	....	10,756,592	593,081·92	.....	....	250 00
....	... .	....	.....	.....	.. ..	... .	250 00
2,541,000	.....	2,541,000	.....	145,655·58	880·12	1,672 23	1,922 23
9,949,300	10,756,592	9:949,300	10,756,592	1,117,467·04	880·12	1,672 23	2,672 23
2,399,811	.....	2,447,611	.....	150,637·74	....	... .	250 00
98,146,094	19,690,720	98,044,811	19,690,720	6,972,583·06	2,001·31	3,802 58	7,302 58

the Fiscal Years ended March 31, 1913 and 1914.

74,583,483	17,152,346	74,295,647	17,152,346	5,335,624·69	2,502·20	4,754 51	7,004 51
8,238,775	9,733,150	8,193,125	9,733,150	1,001,181·86	....	.....	1,000 00
2,207,075	....	2,190,875	.. ..	121,645·47	5·61	10 66	260 66
85,029,333	26,885,496	84,679,647	26,885,496	6,458,452·02	2,507·81	4,765 17	8,265 17
85,796,983	8,934,128	85,647,900	8,934,128	5,704,478·28	1,121·19	2,130 35	4,380 35
9,949,300	10,756,592	9,949,300	10,756,592	1,117,467·04	880·12	1,672 23	2,672 23
2,399,811	.. ..	2,447,611	....	150,637 74	....	....	250 00
98,146,094	19,690,720	98,044,811	19,690,720	6,972,583·06	2,001·31	3,802 58	7.302 58

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued*—SPIRITS.

No. 3.—STATEMENT showing the transactions in the Distilleries in the

Divisions.	In Process, including Deficiencies brought forward.	Manufactured, including Surpluses.	Returned to Distillery for Redistillation.	
			Duty Paid.	In Bond.
	Galls.	Galls.	Galls.	Galls.
Belleville, Ont	63,178·38	599,098·71		18,545·31
Guelph "	39,291·53	364,692·69		24·65
Hamilton "	15,777 83	260,123·57		109,516·04
Perth "	1,161·42	16,013·82		
Prescott "	9,965·40	493,407·86	574·55	3,672·45
Toronto "	139,715 38	2,219,844·56	93·96	130,900·24
Windsor "	86,873·98	1,751,297·07		300,780 83
Totals	355,963·92	5,704,478·28	668·51	563,439·52
Joliette, Que	4,133·86	378,729·54		
Montreal "	31,363 78	593,081·92		318·29
St. Hyacinthe "	21,926 60	145,655·58		2,242·13
Totals	57,424·24	1,117,467·04		2,560·42
Vancouver, B.C.	12,323·74	150,637·74		5 77
Grand Totals	425,711·90	6,972,583·06	668·51	566,605·71

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

Dominion of Canada, during the Fiscal Year ended March 31, 1914.

Received from Other Sources, Duty Paid.	Totals.	Warehoused.	Fusel Oil Written off.	Deficiencies on which Duty was Collected.	In Process, including Deficiencies, carried forward.	Totals.
Galls.	Galls.	Galls.	Galls.	Galls.	Galls.	Galls.
2,361·85	683,184·25	631,136·36	4,837·95	....	47,209 94	683,184·25
2,136·92	406,145·79	375,839·93	1,959·57	.....	28,346·29	406,145·79
518·62	386,036·06	369,957·58	66·50	1,012·95	14,999·03	386,036·66
..... .	17,175·24	16,401 94	... .	4·48	768·82	17,175·24
1,135·99	508,756·25	497,025·99	644·58	.....	11,085·68	508,756·25
2,587·91	2,493,142·05	2,275,504·78	4,206·34	....	213,430·93	2,493,142·05
182·43	2,139,134·31	2,065,639 8	....	103·76	73,390·72	2,139,134·31
9,023·72	6,633,573·95	6,231,506·41	11,714·94	1,121·19	389,231·41	6,633,573·95
....	382,863·40	368,761·45	.....	....	14,101·95	382,863·40
82·75	624,846·74	582,977·62	5,178·97	.....	36,690·15	624,846 74
449·80	170,274·11	151,126 29	133·39	880·12	18,134·31	170,274·11
532·55	1,177,984·25	1,102,865·36	5,312·36	880·12	68,926·41	1,177,984·25
1,510.95	164,478·20	154,532 53	103·85	.....	9,841·82	164,478·20
11,067·22	7,976,036·40	7,488,904·30	17,131·15	2,001·31	467,999·64	7,976,036·40

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued*—SPIRITS.

DR. No. 4.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1914.

Divisions.	Remaining in Warehouse from last Year.	Warehoused.	Imported.	Received from other Divisions.		Totals.
				Removed during Year.	In Transit last Year.	
	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons
Belleville, Ont.	1,266,143·42	631,136·36		25,054·02	838·96	1,923,172 76
Brantford "	6,306 40			31,806·38	79·71	38,192·49
Guelph "	1,710,163·43	375,839·93		44,203·96	46·87	2,130,254 19
Hamilton "	758,841·68	369,957·58		123,443·58	3,028·85	1,255,271·69
Kingston "	5,871·34			46,603·05	23·11	52,497·50
London "	5,624·21			43,788·49	834·94	50,247·64
Ottawa "	28,489·57			155,648·55	2,064·76	186,202·88
" Government Warehouse, Ont.	5,847·13			207,075·31	4,065·31	216,987·75
" Department Laboratory "				84·55		84·55
Perth, Ont.	85,960·84	16,401 91		96,501·74	3,427·56	202,232·08
Peterborough "	434 10			4,908·03		5,342·13
Port Arthur "	14,870·67			72,172·56	6,128·95	93,172·18
Prescott "	851,364·84	497,025·99	30,398·61	5,681·68	1·12	1,384,472 24
St. Catharines "	465·93			8,692·92		9,158·85
Stratford "	1,378·55			15,433·11	155 70	16,967·36
Toronto "	5,210,497·46	2,275,504·78		489,817·46	15,145·05	7,990,964·75
Windsor "	7,574,598·03	2,065,639·83		11,925·47	6,077·08	9,658,240·41
Totals	17,526,797 60	6,231,506·41	30,398·61	1,382,840·86	41,917·97	25,213,461·45
Joliette, Que.	737,660·46	368,761·45		55,316·81		1,161,738·72
Montreal "	1,091,126·82	582,977·62	13·00	895,871·25	29,725·63	2,599,714·32
Quebec "	352,345 46			254,197·33	2,161·55	608,704·34
St. Hyacinthe "	231,028·43	151,126·29		58,855·45	1,043·34	442,053·51
Sherbrooke "	7,994·24		36,098·12	71,200 91	711·90	116,005 17
Three Rivers "	3,405·58			35,646·58	365·58	39,417·74
Totals	2,423,560·99	1,102,865·36	*13·00 36,098·12	1,371,088·33	34,008·00	4,967,633·80

St. John, N.B	25,969·51			84,114·20	1,687·63	111,771·34
Halifax, N.S	3,554·36			22,383·90	2,235·04	28,173·30
Pictou "	620·53			3,991·32	369·94	4,981·79
Totals	4,174·89			26,375·22	2,604·98	33,155·09
Charlottetown, P.E.I				243·98		243·98
Winnipeg, Man	65,617·19			607,192·64	39,128·84	711,938·67
Moose Jaw, Sask	32,005·07			114,289·18	1,773·59	148,067·84
Calgary, Alta	49,320·45			208,379·25	15,542·90	273,242·60
Vancouver, B.C	361,124·86	154,532·53		139,912·39	10,646·61	666,216·39
Victoria "	15,640·37			80,359·59	7,015·60	103,015·56
Totals	376,765·23	154,532·53		220,271·98	17,662·21	769,231·95
Dawson, Y.T	1,010·18			3,950·07		4,960·25
Sundries	8,612·54					8,612·54
Grand Totals	20,513,833·65	7,488,904·30	*13·00 66,496·73	4,018,745·71	154,326·12	32,242,319·51

APPENDIX A—*Continued*—SPIRITS.

No. 4.—Warehouse Return for the Fiscal Year ended March 31, 1914. Cr.

Divisions.	Entered for Consumption.		Removed to Other Divisions.		Taken for Redistillation.	Free.		Exported.	Used in Bonded Factories.	Remaining in Warehouse.	Totals.
	Quantity.	Duty.	Warehoused in Divisions to which Removed.	In Transit.		Legal Allowance.	Other.				
	Gallons.	$ cts.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Belleville, Ont.	57,500·80	109,262 37	352,734·22	14,583·55	18,545·31	34,779·93	2,746·09	2,262·05	7,413·97	1,432,606·84	1,923,172·76
Brantford "	23,797·07	45,216 40	130·70						7,429 21	6,835·51	38,192·49
Guelph "	177,662·15	337,566 19	129,944·51	1,473·77	24·65	49,557·04	1,625·70	31,790·08		1,738,176·29	2,130,254·19
Hamilton "	177,547·63	336,843 13	114,431·09	360·05	109,516·04	26,781·77	618·62	1,615 03	23,114·47	801,286·99	1,255,271·69
Kingston "	34,984·60	66,475 25							12,101 48	5,411 42	52,497·50
London "	45,463·22	86,383 93						5 63		4,778·79	50,247·64
Ottawa "	162,601·40	309,316 70	139·30				195·60		1,093·36	22,173·22	186,202·88
" Govt. W.H. Ont							69·46		213,059·75 ‡	3,858·54	216,987·75
" Dept. Lab'y "							84·55				84·55
Perth, Ont.	110,356·48	209,753 92	4,155·79			772·65				86,947·16	202,232·08
Peterborough "	5,011·46	9,527 93								330·67	5,342·13
Port Arthur "	73,428·00	139,562 02	216·23							19,527·95	93,172·18
Prescott "	89,792 13	179,729 11	225,284·00	1,202·84	3,672·45	7,934·37	1,540·66	1,485·25	30,398·61	1,023,161·93	1,384,472·24
St. Catharines "	8,107·23	15,403 73								1,051·62	9,158·85
Stratford "	15,107·96	28,447 26								1,859·40	16,967·36
Toronto "	593,895·09	1,111,443 07	1,479,204·99	27,342·69	130,900·24	33,031·78	2,654·48	6,892·51	144,763·18	5,572,279·79	7,990,964·75
Windsor "	276,214·67	518,743 80	681,134·97	13,963·92	300,780·83	146,773·04	930·40	290,675·52	28,271·46	7,919,495·60	9,658,240·41
Totals	1,851,469·89	3,503,674 81	2,987,375·80	58,926·82	563,439·52	299,630·58	10,465·56	334,726·07	213,059·75 ‡ 254,585·74	18,639,781·72	25,213,461·45
Joliette, Que.	40,236·42	76,779 81	278,994·86	2,822·53		2,023·21				837,661·70	1,161,738·72
Montreal "	1,153,451·29	2,176,585 57	317,596·96	5,171·78	318·29	3,820·16	121·16	18·05	52,242·69	1,066,973·94	2,599,714·32
Quebec "	238,255·69	453,090 92	316,716·90			6,722·37	660·00		14,294·07	32,055 31	608,704·34
St. Hyacinthe "	67,739·65	128,844 90	67,498·30	1,770·81	2,242 13	998·12	749·54	216·99	1,828·35	299,009·62	442,053·51
Sherbrooke "	68,828·32	141,638 64	453·00					7·50	39,252·92	7,463·43	116,005·17
Three Rivers "	35,697·10	67,887 96								3,729·64	39,417·74
Totals	1,604,208·47	3,044,627 80	981,260·02	9,765·12	2,560·42	13,563·86	1,530·70	242·54	107,618·03	2,246,884·64	4,967,633·80

St. John, N.B	87,243·71	165,849 65	492·97	.....	.....	.....	71 12	....	12,713·26	11,250·28	111,771·34
Halifax, N.S	24,462·04	46,524 26	200·38	.....	.....	.....	....	104·18	.....	3,406·70	28,173·30
Pictou "	4,362 74	8,289 41	103·49	.....	.....	... .	.....	.....	.....	515·56	4,981·79
Totals	28,824·78	54,813 67	303·87	... .	... .	....	.....	104·18	.....	3,922·26	33,155·09
Charlottetown, P.E.I.	243·98	464 39	.....	.....	.. ..	.....	.....	.. ..	....	.....	243·98
Winnipeg, Man	555,982·11	1,055,289 75	20,909·50	912·79	.....	.....	... .	2·82	60,448·28	73,683·17	711,938·67
Moose Jaw, Sask.	122,190·93	232,343 28	521·75	.....	.....	....	.. ..	.....	....	25,355·16	148,067·84
Calgary, Alta	210,991·34	400,865 83	514·64	.....	.....	.....	.....	.....	8,779·49	52,957·13	273,242 60
Vancouver, B.C.	213,449·26	405,568 11	24,823·90	128 68	5·77	5,081·83	1,964 34	120·91	7,422·28	413,219·42	666,216·39
Victoria "	84,087 90	159,770 37	2,543·26	260 18	.....	..... .	69·30	773·53	.....	15,281·39	103,015·56
Totals	297,537·16	565,338 48	27,367·16	388·86	5 77	5,081·83	2,033·64	894·44	7,422·28	428,500·81	769,231·95
Dawson, Y.T.	3,925·17	7,457 83	.....	.....	.....	.....	.....	.. ..	... .	1,035·08	4,960·25
Sundries	....	.....	....	.....	.....	. ....	.. ..	..... .	. .....	8,612·54	8,612·54
Grand Totals	4,762,617·54	9,030,725 49	4,018,745·71	69,993·59	566,005·71	318,276·27	14,101·02	335,970·05	‡213,059·75 451,567·08	21,491,982·79	32,242,319·51

* Seizures. ‡ Used in the manufacture of Methylated Spirits at the Government Warehouse, Ottawa.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued*—SPIRITS.

DR. No. 5.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1913 and 1914.

Provinces.	Remaining in Warehouse from last Year.	Warehoused.	Imported.	Received from other Divisions.		Totals.
				Removed during Year.	In Transit last Year.	
1913.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario	17,029,442·21	5,855,291·29		1,519,260·66	22,909·37	24,426,903·53
Quebec	2,918,846·20	1,902,038·99 *87·93	†54·50	1,374,738·12	32,945·29	5,328,711·03
New Brunswick	19,075·02			116,804·64	1,640·75	137,520·41
Nova Scotia	6,218·50			24,970·05	2,116·01	33,304·56
Prince Edward Island				68·24		68·24
Manitoba	91,576·53			607,011·01	37,811·40	736,498·94
Saskatchewan	29,050·32			127,852·51	8,456·49	165,359·32
Alberta	55,057·64			227,299·42	15,749·71	298,106·77
British Columbia	372,878·64	136,272·09	59·96	248,520·30	14,776·48	772,507·47
Yukon Territory	2,071 11			704·92		2,776·03
Sundries	8,612·54					8,612 54
Totals	20,532,928 71	6,993,602·37 *87·93	†54·50 59·96	4,247,229·87	136,405·50	31,910,368·84

1914.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario	17,526,797·60	6,231,506·41	30,398·61	1,382,840·86	41,917·97	25 213,461·45
Quebec	2,423,560·99	1,102,865·36	†13·00 36,098·12	1,371,088·33	34,008·00	4,967,633·80
New Brunswick	25,969·51			84,114·20	1,687·63	111,771·34
Nova Scotia	4,174·89			26,375·22	2,604·98	33,155·09
Prince Edward Island				243·98		243·98
Manitoba	65,617·19			607,192·61	39,128·84	711,938·67
Saskatchewan	32,005·07			114,289·18	1,773·59	148,067·84
Alberta	49,320·45			208,379·25	15,542·90	273,242·60
British Columbia	376,765·23	154,532·53		220,271·98	17,662·21	769,231·95
Yukon Territory	1,010·18			3,950·07		4,960·25
Sundries	8,612·54					8,612·54
Totals	20,513,833·65	7,488,904·30	66,496·73 †13·00	4,018,745·71	154,326·12	32,242,319·51

*Surplus in Bottling Room. †Seizure.

APPENDIX A—*Continued*—SPIRITS.

No. 5.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1913 and 1914—*Concluded.* CH.

Provinces.	Entered for Consumption.		Removed to Other Divisions.		Taken for Redistillation.	Free.		Exported.	Used in Bonded Factories.	Remaining in Warehouse.	Totals.
	Quantity.	Duty.	Warehoused in Divisions to which Removed.	In Transit.		Legal Allowance.	Other.				
1913.	Gallons.	$ cts.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario	1,935,386·18	3,655,119 11	3,063,870 32	132,629·42	637,003·32	329,267·69	11,427·18	332,131·33	*212,007·21 246,383·28	17,526,797·60	24,426,903·53
Quebec	1,637,045·15	3,098,381 10	1,112,420·61	20,088·04	2,001·85	17,223·24	4,532·44	91·09	111,747·62	2,423,560·99	5,328,711·03
New Brunswick	93,710·12	178,173 57	63·50	22·45					17,754·83	25,969·51	137,520·41
Nova Scotia	28,942·01	55,028 07	68·24					119·42		4,174·89	33,304·56
Prince Edward Island	68·24	129 65									68·24
Manitoba	582,364·28	1,106,178 09	30,118·73	1,070·03				1·38	57,327·33	65,617·19	736,498·94
Saskatchewan	133,354·25	252,579 28								32,005·07	165,359·32
Alberta	246,855·33	469,063 08	1,654·91				276·08			49,320·45	298,106·77
British Columbia	340,445·29	646,866 88	39,633·56	516·18	103·71	4,988·86	1,582·58	1,458·53	7,613·53	376,765·23	772,507·47
Yukon Territory	1,765 85	3,355 12								1,010·18	2,776·03
Sundries										8,612·54	8,612·54
Totals	4,999,936·70	9,465,876 95	4,217,229·87	154,326·12	639,108·88	351,479·79	17,818·28	333,801·75	*212,007·21 440,826·59	20,513,833·65	31,910,368·84

1914.	Gallons.	Duty.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario	1,851,469·89	3,503,674 81	2,987,375·80	58,926·82	563,439·52	299,630·58	10,465·56	334,726·07	*213,059·75 254,585·74	*18,639,781·72	25,213,461·45
Quebec	1,604,208·47	3,044,627 80	981,260·02	9,765·12	2,560·42	13,563·86	1,530·70	242·54	107,618·03	2,246,884·64	4,967,633·80
New Brunswick	87,243·71	165,849 65	492·97				71·12		12,713·26	11,250·28	111,771·34
Nova Scotia	28,824·78	54,813 67	303·87					104·18		3,922·26	33,155·09
Prince Edward Island	243·98	464 39									243·98
Manitoba	555,982·11	1,055,289 75	20,909 50	912·79				2·82	60,448·28	73,683·17	711,938·67
Saskatchewan	122,190·93	232,343 28	521·75							25,355 16	148,067·84
Alberta	210,991·31	400,865 83	514·64						8,779·49	52,957·13	273,242·69
British Columbia	297,537·16	565,338 48	27,367·16	388·86	5·77	5,081·83	2,033 64	894·44	7,422·28	428,500·81	769,231·95
Yukon Territory	3,925·17	7,457 83								1,035·08	4,960·25
Sundries										8,612·54	8,612·54
Totals	4,762,617·54	9,030,725·49	4,018,745·71	69,993·59	566,005·71	318,276·27	14,101·02	335,970·05	*213,059·75 451,567·08	21,491,982 79	32,242,319·51

*Used in the manufacture of Methylated Spirits at the Government Warehouse, Ottawa.

	1913.	1914.
Total duty collected ex-manufactory and ex-warehouse	$9,470,642 12	$9,034,528 07
Licence fees	3,500 00	3,500 00
	$9,474,142 12	$9,038,028 07

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued*—MALT.

No. 6.—RETURN of Manufactures for the Fiscal Year ended March 31, 1914.

Divisions.	Licenses.		Grain Steeped.	Grain used in Malt Manufactured.	Malt.			Total Duty Collected ex-manufactory, including License Fees.
	No.	Fees.			Manufactured.	Paid Duty.	Warehoused.	
		$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	$ cts.
Belleville, Ont.	1	50	271,841	271,841	215,431	.....	215,431	50 00
Brantford "	1	50	647,971	646,738	518,566	.....	518,566	50 00
Guelph "	5	650	7,555,491	7,499,831	6,034,458	.....	6,034,458	650 00
Hamilton "	2	350	5,238,670	5,279,860	4,257,264	.....	4,257,264	350 00
Kingston "	1	50	30,335	71,156	53,458	.....	53,458	50 00
London "	2	400	6,351,600	6,338,400	5,040,910	.....	5,040,910	400 00
Owen Sound "	1	200	6,234,500	6,422,000	5,175,126	.....	5,175,126	200 00
Perth "	2	100	319,023	321,473	270,087	.....	270,087	100 00
Peterborough, "	1	50	453,350	460,090	365,238	.....	365,238	50 00
Prescott "	2	150	411,697	427,652	341,445	.....	341,445	150 00
Toronto "	6	750	13,014,594	12,967,240	10,204,840	.....	10,204,840	750 00
Winsdor "	1	200	2,848,340	2,985,040	2,406,150	.....	2,406,150	200 00
Totals.....	25	3,000	43,377,412	43,691,321	34,882,973	.....	34,882,973	3,000 00
Montreal, Que ..	4	800	45,754,620	45,812,726	36,849,265	1,000	36,848,265	815 00
Quebec " ...	1	150	1,305,729	1,280,362	1,035,782	.....	1,035,782	150 00
Totals.....	5	950	47,060,349	47,093,082	37,885,047	.....	37,884,047	965 00
Winnipeg, Man.	3	500	41,246,448	40,875,088	34,377,064	.....	34,377,064	500 00
Calgary, Alta....	3	500	32,524,370	31,921,360	26,041,840	.....	26,041,840	500 00
Victoria, B.C....	1	100	717,168	670,167	553,244	.....	553,244	100 00
Grand Totals.	37	5,050	164,925,747	164,251,018	133-740,168	1,000	133,739,168	5,065 00

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 12

APPENDIX A—*Continued*—MALT.

No. 7.—COMPARATIVE STATEMENT of Manufactures for the Fiscal Years ended March 31, 1913 and 1914.

Provinces.	Licenses.		Grain Steeped.	Grain used in Malt Manufactured.	Malt.			Total Duty Collected ex-manufactory, including License Fees.
	No.	Fees.			Manufactured.	Paid Duty.	Warehoused.	
1913.		$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	$ cts.
Ontario	28	3,350	48,475,968	47,964,733	37,802,798	1,277	37,801,521	3,369 16
Quebec	5	950	49,707,360	49,676,114	39,035,131	3,156	39,031,975	997 34
Manitoba	3	500	42,642,697	42,996,897	34,506,510		34,506,510	500 00
Alberta	3	500	9,057,435	8,364,225	6,723,710		6,723,710	500 00
British Columbia	1	100	708,783	760,895	605,012		605,012	100 00
Totals	40	5,400	150,592,243	149,762,864	118,673,161	4,433	118,668,728	5,466 50
1914.								
Ontario	25	3,000	43,377,412	43,691,321	34,882,973		34,882,973	3,000 00
Quebec	5	950	47,060,349	47,093,082	37,885,047	1,000	37,884,047	965 00
Manitoba	3	500	41,246,448	40,875,088	34,377,064		34,377,064	500 00
Alberta	3	500	32,524,370	31,921,360	26,041,840		26,041,840	500 00
British Columbia	1	100	717,168	670,167	553,244		553,244	100 00
Totals	37	5,050	164,925,747	164,251,018	133,740,168	1,000	133,739,168	5,065 00

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

APPENDIX A—*Continued*—MALT.

DR. No. 8—WAREHOUSE RETURN for

Remaining in Warehouse from last year.	Warehoused.	Increases.	Received from other Divisions.		Imported.	Totals.	Divisions.
			Removed during year.	In Transit last year.			
Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	
101,511	215,431	1,244	692,660	.....	191	1,911,037	..Belleville, Ont....
118,452	518,566	4,972	107,868	.....	.....	749,858	..Brantford " ....
3,148,798	6,034,458	89,006	2,650,000	180,000	1,383,558	13,485,820	..Guelph " ...
1,527,700	4,257,264	36,254	4,039,132	40,000	1,259,904	11,160,254	.. Hamilton " ....
184,812	53,458	2,724	200,000	.....	.....	440,994	..Kingston " ....
1,948,969	5,040,910	83,381	518,000	.....	103,705	7,694,965	..London " ....
46,768	.....	.....	1,250,420	45,010	5,684	1,347,882	..Ottawa " ...
1,742,490	5,175,126	52,228	480,057	.....	.....	7,449,901	..Owen Sound " ....
55,397	270,087	1,409	2,636,000	60,000	2,520	3,025,413	..Perth " ...
149,823	365,238	12,957	273,600	.....	.....	801,618	..Peterboro " ....
21,214	.....	.....	2,027,862	80,009	7,040	2,136,116	.. Port Arthur " ...
45,645	341,445	1,172	3,044,926	90,000	.....	3,523,188	..Prescott " ....
73,730	.....	800	1,633,416	.....	42,026	1,749,972	..St.Catharines " ...
1,355,594	.....	.....	455,900	.....	.....	1,811,494	..Stratford " ....
5,608,848	10,204,840	56,019	12,043,396	356,000	1,920,015	30,189,118	.Toronto " ....
3,185,847	2,406,150	60,790	710,000	.....	8,880	6,371,667	..Windsor " ....
19,315,598	34,882,973	402,956	32,763,237	851,010	4,733,523	92,949,297	..... Totals.. .....
54,455	.....	5,163	2,400,000	40,000	.....	2,499,618	..Joliette, Que....
5,447,019	36,848,265	93,492	6,822,055	98,924	1,424,416	50,734,171	..Montreal " ....
.....	1,035,782	.....	1,720,000	54,000	15,608	2,825,390	.Quebec " ....
.....	.....	.....	137,400	.....	.....	137,400	St. Hyacinthe " ....
.....	.....	.....	690,000	40,000	1,820	731,820	..Sherbrooke " ....
.....	.....	.....	64,800	.....	.....	64,800	..Three Rivers " ....
5,501,474	37,884,047	98,655	11,834,255	232,924	1,441,844	56,993,199	.....Totals .. .. ..
.....	.....	.....	1,440,000	.....	5,212	1,445,212	..St. John, N. B.....
54,000	.....	.....	3,382,000	162,000	1,700	3,599,700	..Halifax, N. S.. ...
4,749,598	34,377,064	148,863	3,914,126	.....	1,378,559	44,568,210	..Winnipeg, Man.....
35,000	.....	.....	2,410,000	.....	51,271	2,496,271	..Moose Jaw, Sask....
2,680,453	26,041,840	84,393	1,963,100	50,000	1,124,561	31,944,347	..Calgary, Alta....
284,123	.....	.....	6,413,782	210,000	1,230,886	8,138,791	..Vancouver, B.C ....
11,120	553,244	.....	2,600,000	120,000	175,928	3,460,292	..Victoria, B. C.....
295,243	553,244	.....	9,013,782	330,000	1,406,814	11,599,083	..... Totals . .....
4,934	.....	1,933	.....	.....	120,240	127,107	..Dawson, Yukon.....
32,636,300	133,739,168	736,800	66,720,500	1,625,934	10,263,724	245,722,426	... Grand Totals...

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

the Fiscal Year ended March 31, 1914. CR.

Entered for Consumption.		Removed to other Divisions.		Exported.	Free.	Written off.	Remaining in Warehouse.	Totals.
Quantity.	Duty.	Warehoused in Divisions to which Removed.	In Transit.					
Lbs.	$ cts.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
858,050	12,870 76						152,987	1,011,037
630,900	9,463 50						118,958	749,858
6,906,000	103,590 00	3,155,528	52,158				3,372,134	13,485,820
4,968,526	74,527 97	4,938,648	43,000				1,210,080	11,160,254
410,618	6,159 27						30,376	440,994
5,481,935	82,229 68	72,000					2,141,030	7,694,965
1,253,818	18,807 27						94,064	1,347,882
645,781	9,686 76	4,640,262	175,000	40,000			1,948,858	7,449,901
2,660,820	39,912 30				292,715	11,588	60,290	3,025,413
733,684	11,005 26						67,934	801,618
2,110,296	31,654 44						25,820	2,136,116
3,448,261	51,723 92						74,927	3,523,188
1,709,942	25,649 13						40,030	1,749,972
465,500	6,982 50					1,345,994		1,811,494
23,037,550	345,878 27	3,315					7,148,253	30,189,118
4,031,920	60,478 80	252,660		100	765,945		1,321,042	6,371,667
59,353,601	890,619 83	13,062,413	270,158	40,100	1,058,660	1,357,582	17,806,783	92,949,297
13,701	205 52				2,469,900		16,017	2,499,618
29,423,461	441,351 91	11,923,126	228,000	112,000			9,047,584	50,734,171
2,825,390	42,380 74							2,825,390
137,400	2,061 00							137,400
731,820	10,977 30							731,820
64,800	972 00							64,800
33,196,572	497,948 47	11,923,126	228,000	112,000	2,469,900		9,063,601	56,993,199
1,445,212	21,678 18							1,445,212
3,540,800	53,112 00			9,720			49,180	3,599,700
12,276,841	184,152 62	24,098,179	784,000			8,520	7,400,670	44,568,210
2,433,071	36,496 07						63,200	2,496,271
10,317,080	154,756 17	17,395,000	950,000				3,282,267	31,944,347
7,987,816	119,832 71						150,975	8,138,791
3,170,783	47,561 76	241,782	47,727					3,460,292
11,158,599	167,394 47	241,782	47,727				150,975	11,599,083
71,863	1,077 96						55,244	127,107
133,793,639	2,007,235 77	66,720,500	2,279,885	161,820	3,528,560	1,366,102	37,871,920	245,722,426

W. HIMSWORTH,
Deputy Minister.

APPENDIX A--*Continued*—MALT.

DR. No. 9.—COMPARATIVE STATEMENT of Warehouse Returns for the

Remaining in Warehouse from last year.	Warehoused.	Increases.	Received from other Divisions.		Imported.	Totals.	Provinces.
			Removed during year.	In Transit last year.			
Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	1913.
21,564,331	37,801,521	668,661	27,345,744	535,200	1,307,048	89,222,505	Ontario
8,390,484	39,031,975	222,023	5,670,470	90,000	501,860	53,906,812	Quebec
			1,360,000			1,360,000	New Brunswick
24,700			2,974,000	40,000	45,100	3,083,800	Nova Scotia
4,461,968	34,506,510	72,348	1,080,000		*1,440,407	41,561,233	Manitoba
3,100			2,560,000	120,000	41,701	2,724,804	Saskatchewan
596,537	6,723,710	20,146	4,000,000	40,000	383,980	11,764,373	Alberta
211,807	605,012	582	9,823,281	530,000	1,246,363	12,417,045	British Columbia
26,773		475			34,560	61,808	Yukon Territory
35,279,700	118,668,728	984,235	54,813,495	1,355,200	*5,001,022	216,102,380	Totals
							1914.
19,315,598	34,882,973	402,956	32,763,237	851,010	4,733,523	92,949,297	Ontario
5,501,474	37,884,047	98,655	11,834,255	232,924	1,441,844	56,993,199	Quebec
			1,440,000		5,212	1,445,212	New Brunswick
54,000			3,382,000	162,000	1,700	3,599,700	Nova Scotia
4,749,598	34,377,064	148,863	3,914,126		1,378,559	44,568,210	Manitoba
35,000			2,410,000		51,271	2,496,271	Saskatchewan
2,680,453	26,041,840	84,393	1,963,100	50,000	1,124,561	31,944,347	Alberta
295,243	553,244		9,013,782	330,000	1,406,814	11,599,083	British Columbia
4,934		1,933			120,240	127,107	Yukon Territory
32,636,300	133,739,168	736,800	66,720,500	1,625,934	10,263,724	245,722,426	Totals

*32,300 lbs. re-imported.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

Fiscal Years ended March 31, 1913 and 1914. CR.

Entered for Consumption.		Removed to other Divisions.		Exported.	Free.	Written Off.	Remaining in Warehouse.	Totals.
Quantity.	Duty.	Warehoused in Divisions to which Removed	In Transit.					
Lbs.	$ cts.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
55,860,503	838,203 95	12,878,718	223,934	43,600	893,900	6,252	19,315,598	89,222,505
29,122,813	436,856 15	16,813,000	350,000	108,000	2,011,525	.....	5,501,474	53,906,812
1,320,000	19,800 00	40,000	.....	.....	.....	.....	.....	1,360,000
2,974,104	44,611 56	48,496	.....	7,200	.....	.....	54,000	3,083,800
11,619,635	174,294 54	24,380,000	772,000	40,000	.....	.....	4,749,598	41,561,233
2,689,804	40,347 06	.....	.....	.....	.....	.....	35,000	2,724,804
8,543,920	128,158 88	260,000	280,000	.....	.....	.....	2,680,453	11,764,373
11,728,521	175,927 81	393,281	.....	.....	.....	.....	295,243	12,417,045
56,874	853 12	.....	.....	.....	.....	.....	4,934	61,808
123,916,174	1,859,058 07	54,813,495	1,625,934	198,800	2,905,425	6,252	32,636,300	216,102,380
59,353,601	890,619 83	13,062,413	270,158	40,100	1,058,660	1,357,582	17,806,783	92,949,297
33,196,572	497,948 47	11,923,126	228,000	112,000	2,469,900	.....	9,063,601	56,993,199
1,445,212	21,678 18	.....	.....	.....	.....	.....	.....	1,445,212
3,540,800	53,112 00	.....	.....	9,720	.....	.....	49,180	3,599,700
12,276,841	184,152 62	24,098,179	784,000	.....	.....	8,520	7,400,670	44,568,210
2,433,071	36,496 07	.....	.....	.....	.....	.....	63,200	2,496,271
10,317,080	154,756 17	17,395,600	950,000	.....	.....	.....	3,282,267	31,944,347
11,158,599	167,394 47	241,782	47,727	.....	.....	.....	150,975	11,599,083
71,863	1,077 96	.....	.....	.....	.....	.....	55,244	127,107
133,793,639	2,007,235 77	66,720,500	2,279,885	161,820	3,528,560	1,366,102	37,871,920	245,722,426

	1913.	1914.
Total duty collected ex-manufactory and ex-warehouse	$1,859,124 57	$2,007,250 77
License fees	5,400 00	5,050 00
	$1,864,524 57	$2,012,300 77

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—MALT LIQUOR.

No. 10.—RETURN of Manufactures for the Fiscal year ended March 31, 1914.

Divisions.	Licenses. No.	Licenses. Fees.	Malt used.	Other commodities used.	Malt Liquor manufactured.	Total Duty Collected, ex-manufactory including License Fees.
		$ cts.	Lbs.	Lbs.	Galls.	$ cts.
Belleville, Ont.	1	50 00	207,581	.....	97,593	50 00
Brantford "	2	100 00	630,864	.....	261,715	100 00
Guelph "	6	300 00	6,706,931	.....	2,552,950	300 00
Hamilton "	2	100 00	4,488,508	.....	2,097,300	100 00
Kingston "	2	100 00	410,193	.....	152,250	100 00
London "	4	200 00	5,618,984	.....	2,148,004	200 00
Ottawa "	2	100 00	1,887,218	.....	955,500	100 00
Owen Sound "	4	200 00	512,504	.....	211,140	200 00
Perth "	2	100 00	2,721,320	.....	1,290,596	100 00
Peterborough "	2	100 00	735,700	.....	271,492	100 00
Port Arthur "	3	150 00	2,129,408	.....	1,022,400	150 00
Prescott "	3	150 00	3,100,394	.....	1,374,720	150 00
St. Catharines "	2	100 00	1,650,970	.....	747,510	100 00
Stratford "	2	100 00	453,870	.....	224,900	100 00
Toronto "	11	575 00	21,341,702	.....	9,608,595	575 00
Windsor "	2	100 00	2,421,095	4,080	1,176,954	515 00
Totals	50	2,525 00	55,017,242	4,080	24,193,619	2,940 00
Montreal, Que.	10	500 00	27,105,717	130,120	12,133,195	15,759 50
Quebec "	3	150 00	4,219,875	.....	1,779,500	150 00
Sherbrooke "	1	50 00	733,300	.....	414,196	50 00
Three Rivers "	1	50 00	64,800	.....	29,500	50 00
Totals	15	750 00	32,123,692	130,120	14,356,391	16,009 50
St. John, N.B.	2	100 00	1,416,231	.....	546,121	100 00
Halifax, N.S.	3	150 00	3,541,624	.....	1,171,109	150 00
Winnipeg, Man.	7	350 00	11,177,337	5,300	5,005,223	1,503 70
Moose Jaw, Sask.	4	200 00	2,430,079	58,400	1,200,672	7,868 50
Calgary, Alta.	8	375 00	9,656,129	366,850	4,526,957	58,006 80
Vancouver, B.C.	20	1,000 00	7,926,714	580,650	3,690,700	66,913 30
Victoria "	7	350 00	3,158,493	61,995	1,342,669	7,874 27
Totals	27	1,350 00	11,085,207	642,645	5,033,369	74,787 57
Dawson, Y.T.	1	50 00	61,688	.....	27,394	50 00
Grand Totals	117	5,850 00	126,509,229	1,207,395	56,060,846	161,416 07

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 12

APPENDIX A—*Continued*—MALT LIQUOR.

No. 11.—Comparative Statement of Manufactures for the Fiscal Years ended March 31, 1913 and 1914.

Provinces.	Licenses.		Malt used.	Other Commodities used.	Malt Liquor manufactured.	Malt Liquor exported.	Total Duty collected, ex-manufactory, including License Fees.
	No.	Fees.					
1913.		$	Lbs.	Lbs.	Galls.	Galls.	$ cts.
Ontario	54	2,700	51,448,711		23,112,781	5,265	2,700 00
Quebec	13	650	27,928,666	99,640	13,104,571		10,752 30
New Brunswick	2	100	1,313,070		521,348		100 00
Nova Scotia	3	150	3,022,181		979,735		150 00
Manitoba	6	300	10,250,888	2,200	4,403,240		556 10
Saskatchewan	4	200	2,667,381	89,650	1,316,552		11,939 00
Alberta	7	325	8,122,642	285,672	3,787,805		42,073 30
British Columbia	27	1,350	11,684,437	715,168	5,066,714		81,116 60
Yukon Territory	1	50	56,874		21,654		50 00
Totals	117	5,825	116,494,850	1,192,330	52,314,400	5,265	149,437 30
1914.							
Ontario	50	2,525	55,017,242	4,080	24,193,619		2,940 00
Quebec	15	750	32,123,692	130,120	14,356,391		16,009 50
New Brunswick	2	100	1,416,231		546,121		100 00
Nova Scotia	3	150	3,541,624		1,171,100		150 00
Manitoba	7	350	11,177,337	5,300	5,005,223		1,503 70
Saskatchewan	4	200	2,430,079	58,400	1,200,672		7,868 50
Alberta	8	375	9,656,129	366,850	4,526,957		58,006 80
British Columbia	27	1,350	11,085,207	642,645	5,033,369		74,787 57
Yukon Territory	1	50	61,688		27,394		50 00
Totals	117	5,850	126,509,229	1,207,395	56,060,846		161,416 07

W. HIMSWORTH,
Deputy Minister.

Inland Revenue Department,
Ottawa, June 1, 1914.

APPENDIX A—*Continued*—TOBACCO.

No. 12.—RETURN of Manufactures for

Divisions.	Licenses.		Total Weight of Raw Leaf Tobacco and other Materials actually used.	Tobacco. At 5c. per lb.		
	No.	Fees.		Manufactured.	Paid Duty.	Warehoused.
		$ cts.	Lbs.	Lbs.	Lbs.	Lbs.
Hamilton, Ont.	1	50 00	1,355,035½	1,307,429$\frac{3}{40}$	636,501$\frac{3}{40}$	670,928
Perth "	1	25 00	412	.....	.....	.....
Toronto "	4	200 00	138,926	143,428	15,128	128,300
Windsor "	5	225 00	153,104	158,341	158,341	.....
Totals	11	500 00	1,647,477½	1,609,198$\frac{3}{40}$	809,970$\frac{3}{40}$	799,228
Joliette, Que.	10	450 00	116,964	121,067	121,067	.....
Montreal "	40	1,875 00	14,231,932½	11,846,404½	5,122,273	6,724,131½
Quebec "	5	250 00	3,408,312½	3,367,565½	3,367,565½	.....
St. Hyacinthe "	2	100 00	7,704	7,785	7,785	.....
Sherbrooke "	2	75 00	3,900,813	4,087,564	4,087,494	70
Three Rivers "	3	125 00	106,457½	106,457½	106,457½	.....
Totals	62	2,875 00	21,772,183½	19,536,843½	12,812,642	6,724,201½
Pictou, N.S.	2	75 00	13,485	14,279$\frac{7}{10}$	12,386$\frac{1}{5}$	1,893½
Charlottetown, P.E.I.	4	200 00	190,984	227,657	227,657	.....
Winnipeg, Man.	1	50 00	5,345½	.....	.....	.....
Calgary, Alberta	1	25 00	300	300	300	.....
Vancouver, B.C.	1	25 00	2,200	2,200	2,200	.....
Grand Totals	82	3,750 00	23,631,975½	21,390,478$\frac{11}{40}$	13,865,155$\frac{11}{40}$	7,525,323

INLAND REVENUE DEPARTMENT,
OTTAWA. June 1, 1914.

the Fiscal Year ended March 31, 1914.

Cigarettes. At $2.40 per M.			Cigarettes. At $7.00 per M.			Snuff. At 5c. per lb.		Total Duty Collected ex-manufactory, including License Fees.
Manufactured.	Paid Duty.	Warehoused.	Manufactured.	Paid Duty	Warehoused.	Manufactured.	Paid Duty	
No.	No.	No.	No.	No.	No.	Lbs.	Lbs.	$ cts.
40,963,700	40,963,700							130,187 95
256,000	178,000	78,000						452 20
145,670	145,670							1,306 01
								8,142 05
41,365,370	41,287,370	78,000						140,088 21
								6,503 35
1,120,282,090	1,081,151,950	39,130,140	2,376,700	2,336,200	40,500	551,217	551,217	2,896,667 58
999,950	638,300	361,650				43,530	43,530	172,336 77
								489 25
								204,449 68
								5,447 88
1,121,282,040	1,081,790,250	39,491,790	2,376,700	2,336,200	40,500	594,747	594,747	3,285,894 51
								694 36
								11,583 01
1,683,500	1,028,500	655,000						2,518 40
								40 00
								135 00
1,164,330,910	1,124,106,120	40,224,790	2,376,700	2,336,200	40,500	594,747	594,747	3,440,953 49

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—TOBACCO.

No. 13.—Comparative Statement of Manufactures for

Provinces.	Licenses.		Total Weight of Raw Leaf Tobacco and other Materials actually used.	Tobacco at 5c. per lb.		
	No.	Fees.		Manufactured.	Paid Duty.	Warehoused.
1913.		$ cts.	Lbs.	Lbs.	Lbs.	Lbs.
Ontario	9	400 00	1,609,240½	1,584,290	795,512½	788,777½
Quebec	56	2,675 00	22,008,118	20,285,637½	12,513,713½	7,771,924
Nova Scotia	1	50 00	10,571	11,523	11,523	
Prince Edward Island	4	175 00	202,060	221,418½	221,418½	
Manitoba	1	50 00	17,152			
British Columbia	1	50 00	2,846	3,000	3,000	
Totals.	72	3,400 00	23,849,987½	22,105,869	13,545,167½	8,560,701½
1914.						
Ontario	11	500 00	1,647,477½	1,609,198 3/10	809,970 3/10	799,228
Quebec	62	2,875 00	21,772,183½	19,536,843½	12,812,642	6,724,201½
Nova Scotia	2	75 00	13,485	14,279 7/10	12,386½	1,893½
Prince Edward Island	4	200 00	190,984	227,657	227,657	
Manitoba	1	50 00	5,345½			
Alberta	1	25 00	300	300	300	
British Columbia	1	25 00	2,200	2,200	2,200	
Totals.	82	3,750 00	23,631,975½	21,390,478 11/40	13,865,155 11/40	7,525,323

Inland Revenue Department,
Ottawa, June 1, 1914.

the Fiscal Years ended March 31, 1913 and 1914.

Cigarettes at $2.40 per M.			Cigarettes at $7 per M.			Snuff at 5c. per lb.		Total Duty Collected ex-manufactory, including License Fees.
Manufactured.	Paid Duty.	Warehoused.	Manufactured.	Paid Duty.	Warehoused.	Manufactured.	Paid Duty.	
No.	No.	No.	No.	No.	No.	Lbs.	Lbs.	$ cts.
39,384,500	39,384,500		1,100	1,100				134,706 13
931,925,907	903,595,307	28,330,600	2,407,100	2,377,100	30,000	659,992	659,992	2,846,628 80
								626 15
								11,246 00
5,487,800	2,068,250	3,419,550						5,013 80
								200 00
976,798,207	945,048,057	31,750,150	2,408,200	2,378,200	30,000	659,992	659,992	2,998,420 88
41,365,370	41,287,370	78,000						140,088 21
1,121,282,040	1,081,790,250	39,491,790	2,376,700	2,336,200	40,500	594,747	594,747	3,285,894 51
								694 36
								11,583 01
1,683,500	1,028,500	655,000						2,518 40
								40 00
								135 00
1,164,330,910	1,124,106,120	40,224,790	2,376,700	2,336,200	40,500	594,747	594,747	3,440,953 49

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—TOBACCO, MANUFACTURED BEFORE JUNE 1, 1908.

DR. No. 14.—WAREHOUSE RETURN for the Fiscal year ended March 31, 1914. CR.

Remaining in Warehouse from last year.	Totals.	Divisions.	Ships stores.	Remaining in Warehouse.	Totals.
Lbs.	Lbs.		Lbs.	Lbs.	Lbs.
461	461	St. John, N. B.		461	461
4,039½	4,039½	Victoria, B.C.	40	3,999½	4,039½
19,719½	19,719½	Sundries		19,719½	19,719½
24,220	24,220	Totals	40	24,180	24,220

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

APPENDIX A—*Continued.*—TOBACCO, MANUFACTURED BEFORE JUNE 1, 1908.

No. 15—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal years ended March 31, 1913 and 1914.

DR. CR.

Remaining in Warehouse from last year.	Totals.	Provinces.	Ships stores.	Remaining in Warehouse.	Totals.
Lbs.	Lbs.	1913.	Lbs.	Lbs.	Lbs.
461	461	New Brunswick		461	461
4,179½	4,179½	British Columbia	140	4,039½	4,179½
19,719½	19,719½	Sundries		19,719½	19,719½
24,360	24,360	Totals	140	24,220	24,360
		1914.			
461	461	New Brunswick		461	461
4,039½	4,039½	British Columbia	40	3,999½	4,039½
19,719½	19,719½	Sundries		19,719½	19,719½
24,220	24,220	Totals	40	24,180	24,220

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

APPENDIX A—*Continued.*—TOBACCO, UNDER AMENDED RATES OF

DR. No. 16.—WAREHOUSE RETURN for the

Divisions.	Remaining in Warehouse from last Year.		Warehoused.			Received from other	
						Tobacco.	
	Tobacco.	Cigarettes	Tobacco.	Cigarettes.	Overweight Cigarettes	Removed during year.	In Transit last year.
	Lbs.	No.	Lbs.	No.	No.	Lbs.	Lbs.
Belleville, Ont						1,240	
Hamilton "	260,563½		670,928				
Ottawa "							
Owen Sound "						34,390	2,220
Perth "				78,000		1,200	
Stratford "						36,172	1,020
Toronto "	22,767		128,300				
Totals	283,330½		799,228	78,000		73,002	3,240
Montreal, Que	745,942½	4,602,450	6,724,131½	39,130,140	40,500		
Quebec "	22,129½	298,800		361,650			
Sherbrooke "			70				
Totals	768,072	4,901,250	6,724,201½	39,491,790	40,500		
St. John, N.B						4,360	
Halifax, N.S						34,371	1,895
Pictou "			1,893½				
Totals			1,893½			34,371	1,895
Winnipeg, Man		1,554,550		655,000			
Vancouver, B.C	2,660					9,336	980
Victoria "						144,468	
Totals	2,660					153,804	980
Grand Totals	1,054,062½	6,455,800	7,525,323	40,224,790	40,500	265,537	6,115

SESSIONAL PAPER No. 12

DUTY, JUNE 1, 1908.

Fiscal year ended March 31, 1914. CR.

Divisions.	Totals.			Entered for Consumption.			
Cigarettes. Removed during year.	Tobacco.	Cigarettes.	Over-weight Cigarettes.	Tobacco.	Cigarettes.	Over-weight Cigarettes.	Duty.
No.	Lbs.	No.	No.	Lbs.	No.	No.	$ cts.
.. ..	1,240	.....	.. ..	1,240	.....	.. ..	62 00
.....	931,491½	.....	....	697,339	.....	.....	34,866 95
13,500	.....	13,500	.....	....	....	.....	....
.....	36,610	.....	.....	36,610	....	....	1,830 50
....	1,200	78,000	....	1,200	.....	... .	60 00
....	37,192	.....	....	36,720	.....	.....	1,836 00
....	151,067	.....	.....	134,986	....	.....	6,749 30
13,500	1,158,800½	91,500	.....	908,095	.....	....	45,404 75
....	7,470,074	43,732,590	40,500	6,671,636	37,330,750	31,500	423,396 11
.....	22,129½	660,450	.....	....	455,300	....	1,092 72
.....	70	....	.....	.....	.....	....	....
....	7,492,273½	44,393,040	40,500	6,671,636	37,786,050	31,500	424,488 83
.. ..	4,360	. ...	....	4,360	....	.....	218 00
.....	36,266	.....	... .	36,266	....	.....	1,813 30
....	1,893½	....	... .	.....	.....	.....	....
....	38,159½	.....	....	36,266	....	.....	1,813 30
.....	..... .	2,209,550	.....	... .	1,763,300	.....	4,231 92
.....	12,976	.....	. .. .	12,976	....	.....	648 80
....	144,468	....	.....	144,468	.....	.....	7,223 40
.....	157,444	..... .	... .	157,444	....	.....	7,872 20
13,500	8,851,037½	46,694,090	40,500	7,777,801	39,549,350	31,500	484,029 00

5 GEORGE V., A. 1915

APPENDIX A—*Continued.*—TOBACCO, UNDER AMENDED RATES OF

No. 16.—WAREHOUSE RETURN for the

Divisions.	Removed to other Divisions.			Exported.	Ship's Stores.	Free and Written off.	
	Tobacco.		Cigarettes.				
	Warehoused in Divisions to which removed.	In Transit	Warehoused in Divisions to which removed.	Tobacco	Cigarettes	Tobacco	Cigarettes
	Lbs.	Lbs.	No.	Lbs.	No.	Lbs.	No.
Belleville, Ont.							
Hamilton "				1,197		1,664	
Ottawa "							13,500
Owen Sound "							
Perth "							
Stratford "							
Toronto "							
Totals				1,197		1,664	13,500
Montreal, Que.	265,537	3,056	13,500	2,036	5,000		182,820
Quebec "							
Sherbrooke "				70			
Totals	265,537	3,056	13,500	2,106	5,000		182,820
St. John, N.B.							
Halifax, N.S.							
Pictou "							
Totals							
Winnipeg, Man.							
Vancouver, B.C.							
Victoria "							
Totals							
Grand Totals	265,537	3,056	13,500	3,303	5,000	1,664	196,320

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 12

DUTY, JUNE 1, 1908.

Fiscal Year ended March 31, 1914.—*Concluded.* CR.

Taken for Reworking.		Remaining in Warehouse.			Totals.		
Tobacco	Cigarettes	Tobacco	Cigarettes	Overweight Cigarettes	Tobacco	Cigarettes.	Overweight Cigarettes
Lbs.	No.	Lbs.	No.	No.	Lbs.	No.	No.
					1,240		
		231,291½			931,491½		
						13,500	
					36,610		
			78,000		1,200	78,000	
		472			37,192		
		16,081			151,067		
		247,844½	78,000		1,158,800½	91,500	
1,558½	35,000	526,250½	6,165,520	9,000	7,470,074	43,732,590	40,500
		22,129½	205,150		22,129½	660,450	
					70		
1,558½	35,000	548,380	6,370,670	9,000	7,492,273½	44,393,040	40,500
					4,360		
					36,266		
		1,893½			1,893½		
		1,893½			38,159½		
			446,250			2,209,550	
					12,976		
					144,468		
					157,444		
1,558½	35,000	798,118	6,894,920	9,000	8,851,037½	46,694,090	40,500

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued*—TOBACCO, UNDER AMENDED RATES OF

DR. No. 17.—COMPARATIVE STATEMENT of Warehouse Returns

Provinces.	Remaining in Warehouse from last year.			Warehoused.		
	Tobacco.	Cigarettes	Overweight Cigarettes.	Tobacco.	Cigarettes.	Overweight Cigarettes.
1913.	Lbs.	No.	No.	Lbs.	No.	No.
Ontario	308,516			788,777½		
Quebec	354,353	4,018,944	9,600	7,771,924	28,330,600	30,000
New Brunswick						
Nova Scotia	1,490					
Manitoba		1,046,350			3,419,550	
British Columbia						
Totals	664,359	5,065,294	9,600	8,560,701½	31,750,150	30,000
1914.						
Ontario	283,330½			799,228	78,000	
Quebec	768,072	4,901,250		6,724,201½	39,491,790	40,500
New Brunswick						
Nova Scotia				1,893½		
Manitoba		1,554,550			655,000	
British Columbia	2,660					
Totals	1,054,062½	6,455,800		7,525,323	40,224,790	40,500

SESSIONAL PAPER No. 12

DUTY, JUNE 1, 1908.

for the Fiscal Years ended March 31, 1913 and 1914.

Received from other Divisions.				Totals.		
Tobacco.		Cigarettes.		Tobacco.	Cigarettes.	Overweight Cigarettes.
Removed during year.	In Transit last year.	Removed during year.	In Transit last year.			
Lbs.	Lbs.	No.	No.	Lbs.	No.	No.
96,040	2,660	17,200	500	1,195,993½	17,700	
3,304				8,129,581	32,349,544	39,600
5,245				5,245		
39,454	1,100			42,044		
					4,465,900	
264,715	11,060			275,775		
408,758	14,820	17,200	500	9,648,638½	36,833,144	39,600
73,002	3,240	13,500		1,158,800½	91,500	
				7,492,273½	44,393,040	40,500
4,360				4,360		
34,371	1,895			38,159½		
					2,209,550	
153,804	980			157,444		
265,537	6,115	13,500		8,851,037½	46,694,090	40,500

APPENDIX A—*Continued.*—TOBACCO, UNDER AMENDED RATES OF

No. 17.—Comparative Statement

Provinces.	Entered for Consumption.				Removed to other Divisions.			Exported.	
					Tobacco.				
	Tobacco.	Cigarettes.	Overweight Cigarettes.	Duty.	Warehoused in Divisions to which removed.	In Transit.	Cigarettes. Warehoused in Divisions to which removed.	Tobacco.	Cigarettes.
1913.	Lbs.	No.	No.	$ cts.	Lbs.	Lbs.	No.	Lbs.	No.
Ontario	911,559½			45,577 98				1,103½	
Quebec	6,938,138½	27,366,094	39,600	412,862 79	387,598	6,115	17,200	3,334	27,000
New Brunswick	5,245			262 25					
Nova Scotia	42,044			2,102 20					
Manitoba		2,911,350		6,987 24					
British Columbia	251,955			12,597 75	21,160				
Totals	8,148,942	30,277,444	39,600	480,390 21	408,758	6,115	17,200	4,437½	27,000
1914.									
Ontario	908,095			45,404 75				1,197	
Quebec	6,671,636	37,786,056	31,500	424,488 83	265,537	3,056	13,500	2,106	
New Brunswick	4,360			218 00					
Nova Scotia	36,266			1,813 30					
Manitoba		1,763,300		4,231 92					
British Columbia	157,444			7,872 20					
Totals	7,777,801	39,549,350	31,500	484,029 00	265,537	3,056	13,500	3,303	

Total duty collected ex-manufactory and ex-warehouse including Canada Twist, Raw Leaf, and other materials

License fees

Inland Revenue Department,
Ottawa, June 1, 1914.

SESSIONAL PAPER No. 12

DUTY, JUNE 1, 1908.

of Warehouse Returns, &c.—*Concluded.* CR.

Ship's Stores—Cigarettes.	Free and written off.		Taken for re-working.		Remaining in Warehouse.			Totals.		
	Tobacco.	Cigarettes.	Tobacco.	Cigarettes.	Tobacco.	Cigarettes.	Overweight Cigarettes.	Tobacco.	Cigarettes.	Overweight Cigarettes.
No.	Lbs.	No.	Lbs.	No.	Lbs.	No	No.	Lbs.	No.	No.
.....	.....	17,700	.....	.....	283,330½	.....	.....	1,195,993½	17,700	.....
.....	.....	.....	26,323½	38,000	768,072	4,901,250	.....	8,129,581	32,349,544	39,600
.....	.....	.....	.....	.....	.....	.....	.....	5,245	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	42,044	.....	.....
.....	.....	.....	.....	.....	.....	1,554,550	.....	.....	4,465,900	.....
.....	.....	.....	.....	.....	2,660	.....	.....	275,775	.....	.....
.....	.....	17,700	26,323½	38,000	1,054,062½	6,455,800	.....	9,648,638½	36,833,144	39,600
.....	1,664	13,500	.....	.....	247,844½	78,000	.....	1,158,800½	91,500	.....
5,000	.....	182,820	1,558½	35,000	548,380	6,370,670	9,000	7,492,273½	44,393,040	40,500
.....	.....	.....	.....	.....	.....	.....	.....	4,360	.....	.....
.....	.....	.....	.....	.....	1,893½	.....	.....	38,159½	.....	.....
.....	.....	.....	.....	.....	.....	446,250	.....	.....	2,209,550	.....
.....	.....	.....	.....	.....	.....	.....	.....	157,444	.....	.....
5,000	1,664	196,320	1,558½	35,000	798,118	6,894,920	9,000	8,851,037½	46,694,090	40,500

1913.	1914.
$9,188,718 96	$9,485,627 93
3,462 00	3,798 00
$9,192,180 96	$9,489,425 93

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—RAW LEAF TOBACCO, INCLUDING STEMS,

DR. No. 18.—WAREHOUSE RETURN for the

Remaining in Warehouse from last year.	Imported.	Warehoused ex-Factory.	Received from other Divisions.		Totals.	Divisions.
			Removed during year.	In transit last year.		
Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	
1,309	4,358	974	117	.....	6,758	....Belleville, Ont ....
25,194	49,058	2,102	3,112	1	79,467	....Brantford " ....
11,321	22,087	1,317	1,313	.....	36,038	...Guelph " ....
1,888,847	2,384,460	254,410	7,568	.....	4,535,285	...Hamilton " ....
52,776	40,836	8,740	.....	.....	102,352	....Kingston " ....
282,871	721,580	64,625	10,950½	126¾	1,080,153¼	....London " ....
1,364	3,177	.....	602	.....	5,143	...Ottawa " ....
4,325	9,018	1,454	.....	.....	14,797	....Owen Sound " ....
2,615	2,113	.....	.....	.....	4,728	...Perth " ....
741	2,066	.....	.....	.....	2,807	...Peterborough " ....
.....	.....	.....	353	.....	353	....Port Arthur " ....
2,541	6,704	.....	.....	111	9,356	....Prescott " ....
7,999	8,945	795	743	350	18,832	...St. Catharines " ...
6,079	25,956¼	.....	2,252	.....	34,287¼	....Stratford " ....
283,842	532,786	46,383	3,643	.....	866,654	....Toronto " ....
25,350	83,083	4,836	1,553	.....	114,822	....Winsdor " ....
2,597,174	3,896,227¼	385,636	32,206½	588¾	6,911,832½	.... Totals..... .
12,266¼	10,192	.....	16,789	327	39,574¼	... Joliette, Que....
8,414,487	12,139,389¾	344,999	19,590	1,163¾	20,919,629½	....Montreal " ....
98,659½	264,030½	11,193	10,081	.....	383,964	.. Quebec " .. .
18,634½	53,157	.....	51,188¼	...	122,979¾	....St. Hyacinthe " ...
211,507	525,404	34,571	793	225	772,500	....Sherbrooke " ....
813	3,583	.....	457	.....	4,853	...Three Rivers " ....
8,756,367¼	12,995,756¼	390,763	98,898¼	1,715¾	22,243,500½	....Totals.....
13,625	17,497	.....	1,311	.....	32,433	....St. John, N.B.....
1,854	4,626	1,335	550	.....	8,365	...Halifax, N.S..... ...
1,525	7,364	.....	1,173	.....	10,062	....Pictou " .....
3,379	11,990	1,335	1,723	.....	18,427	.....Totals.....
29,667	.....	.....	.....	.....	29,667	....Charlottetown, P.E.I.
43,975	61,692	1,405	3,369	196	110,637	....Winnipeg, Man ....
6,292	9,037	.....	713	253	16,295	....Moose Jaw, Sask.....
37,433	106,528	6,038	657	633	151,289	...Calgary, Alta .....
58,111	91,714	2,233	328	258	152,644	....Vancouver, B.C.....
19,987	36,414	6,046	401	106	62,954	....Victoria " .....
78,098	128,128	8,279	729	364	215,598	....Totals.....
11,566,010¼	17,226,855½	793,456	139,606¾	3,750½	29,729,679	.... .Grand Totals...

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 12

SCRAPS AND CUTTINGS.

Fiscal Year ended March 31, 1914. CR.

Entered for Consumption.		Removed to other Divisions.		Exported.	Destroyed.	Remaining in Warehouse.	Totals.
Quantity.	Duty.	Warehoused in divisions to which removed.	In Transit.				
Std. lbs.	$ cts.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.
4,578	1,281 84			974		1,206	6,758
51,339	15,261 26			2,102		22,966	79,467
24,481	7,225 26	1,003		1,679		8,875	36,038
1,820,139	511,379 96	4,465		512,746		2,197,935	4,535,285
51,108	14,317 38	786		8,740		41,718	102,352
725,114¼	222,866 70	11,005		74,096	79	269,859	1,080,153¼
4,093	1,146 04	899		1,454		1,650	5,143
8,902	2,911 58					3,542	14,797
2,752	770 56				49*	1,927	4,728
2,012	563 36					795	2,807
325	91 00					28	353
6,801	1,923 18					2,555	9,356
10,994	3,104 08	253		795		6,790	18,832
26,383¼	7,758 73	533				7,371	34,287¼
480,814	136,853 78	7,071		47,650	224	330,895	866,654
86,212	25,856 32	1,760		10,237		16,613	114,822
3,309,107½	953-311 03	27,775		660,473	49* 303	2,914,125	6,911,832½
21,476⅕	6,133 96	10,046⅘				8,051½	39,574¼
14,187,368⅖	4,005,642 06	89,584	851½	380,753½	14,934	6,246,137⅖	20,919,629½
273,329½	76,539 26	1,382		11,193	2,756	95,303⅗	383,964
86,133½	25,152 34	1,901½	385		20	34,536⅖	122,979¾
534,230	149,584 40	1,600		37,202	122	199,346	772,500
3,611	1,011 08					1,242	4,853
15,106,149⅛	4,264,063 10	104,516¾	1,236½	429,148½	17,832	6,584,617⅝	22,243,500½
17,094	4,786 32	152			341	14,846	32,433
5,745	1,608 60			1,335		1,285	8,365
7,428	2,111 90					2,634	10,062
13,173	3,720 50			1,335		3,919	18,427
3,094	866 32	2,174				24,399	29,667
72,138	21,081 90	2,000	13,191	1,940	387	20,981	110,637
10,235	2,904 02	896	460	157		4,547	16,295
101,434	28,515 06	1,490	140	7,204	14	41,007	151,289
103,582	30,913 82	245		3,129		45,688	152,644
39,796	12,078 92	358		6,947		15,853	62,954
143,378	42,992 74	603		10,076		61,541	215,598
18,775,802⅝	5,322,240 99	139,606¾	15,027⅗	1,110,333½	49* 18,877	9,669,982⅝	29,729,679

*Re-entered for use.

W. HIMSWORTH.
Deputy Minister,

APPENDIX A—*Continued.*—RAW LEAF TOBACCO

DR. No. 19.—COMPARATIVE STATEMENT of Warehouse Returns

Remaining in Warehouse from last year.	Imported.	Warehoused ex-Factory.	Received from other Divisions.		Totals.	Provinces.
			Removed during the year.	In Transit last year.		
Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	1913.
2,023,471	4,473,455	485,737	29,084½	1,736	7,013,483½	....Ontario .....
7,725,823½	16,065,884¾	326,893	69,523½	153½	24,188,278	....Quebec.....
12,163	18,583	... .	742	....	31,488	....New Brunswick.. ....
2,508	11,082	.....	1,028	.....	14,618	.. Nova Scotia .. ....
33,154	....	.. ..	....	.....	33,154	....Prince Edward Island.
56,174	115,570	8,672	1,940½	....	182,356½	...Manitoba.....
3,315	14,964	....	276	.....	18,555	....Saskatchewan .... ..
19,833	121,648	15,085	534	.....	157,100	....Alberta .....
67,347	192,077	13,067	3,645	428	276,564	....British Columbia.....
9,943,788¼	21,013,263¾	849,454	106,773½	2,317½	31,915,597	.....Totals.....
						1914.
2,597,174	3,896,227¼	385,636	32,206½	588¾	6,911,832½	....Ontario .....
8,756,367½	12,995,756¼	390,763	98,898¼	1,715¼	22,243,500½	....Quebec ... .
13,625	17,497	.....	1,311	....	32,433	....New Brunswick.... ..
3,379	11,990	1,335	1,723	.....	18,427	....Nova Scotia ....
29,667	....	..... .	.....	..... .	29,667	....Prince Edward Island.
43,975	61,692	1,405	3,369	196	110,637	....Manitoba.....
6,292	9,037	... .	713	253	16,295	....Saskatchewan .....
37,433	106,528	6,038	657	633	151,289	....Alberta ....
78,098	128,128	8,279	729	364	215,598	....British Columbia .....
11,566,010¼	17,226,855½	793,456	139,606¾	3,750½	29,729,679	.....Totals..... ...

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 12

INCLUDING STEMS, SCRAPS AND CUTTINGS.

for the Fiscal Years ended March 31, 1913 and 1914. CR.

Entered for Consumption.		Removed in Bond to other Divisions.		Exported.	Destroyed.	Remaining in Warehouse.	Totals.
Quantity.	Duty.	Warehoused in divisions to which removed.	In Transit.				
Std. lbs.	$ cts.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.
3,781,358½	1,086,656 90	43,160	2,661	586,653	2,477	2,597,174	7,013,483½
14,998,058¾	4,236,457 69	59,663½	1,089½	369,840	3,259½	8,756,367¾	24,188,278
17,863	5,001 64	.....	.....	.....	.....	13,625	31,488
11,239	3,146 92	.....	.....	.....	.....	3,379	14,618
3,439	962 92	.....	.....	.....	48	29,667	33,154
125,012½	35,725 76	1,024	.....	11,426	919	43,975	182,356½
11,337	3,234 98	.....	.....	926	.....	6,292	18,555
102,724	28,874 30	1,078	.....	15,759	106	37,433	157,100
181,200	53,874 65	1,848	.....	15,418	.....	78,098	276,564
19,232,231¼	5,453,935 76	106,773½	3,750½	1,000,022	6,809½	11,566,010¼	31,915,597
					49*		
3,309,107½	953,311 03	27,775	.....	660,473	303	2,914,125	6,911,832½
15,106,149⅝	4,264,063 10	104,516¾	1,236½	429,148½	17,832	6,584,617⅝	22,243,500½
17,094	4,786 32	152	.....	.....	341	14,846	32,433
13,173	3,720 50	.....	.....	1,335	.....	3,919	18,427
3,094	866 32	2,174	.....	.....	.....	24,399	29,667
72,138	21,081 90	2,000	13,191	1,940	387	20,981	110,637
10,235	2,904 02	896	460	157	.....	4,547	16,295
101,434	28,515 06	1,490	140	7,204	14	41,007	151,289
143,378	42,992 74	603	.....	10,076	.....	61,541	215,598
18,775,802⅝	5,322,240 99	139,606¾	15,027½	1,110,333½	49* 18,877	9,669.982⅝	29,729,679

* Re-entered for use

W. HIMSWORTH,
Deputy Minister.

APPENDIX A *Continued.*—OTHER MATERIALS.

DR. No. 20.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1914. CR.

Remaining in Warehouse from last year.	Warehoused.	Totals.	Divisions.	Entered for Consumption.		Remaining in Warehouse.	Totals.
				Quantity.	Duty.		
Lbs.	Lbs.	Lbs.		Lbs.	$ cts.	Lbs.	Lbs.
193,157	1,384,297	1,577,454	Montreal, Q.	1,510,010	241,601 60	67,444	1,577,454
193,157	1,384,297	1,577,454	Totals...	1,510,010	241,601 60	67,444	1,577,454

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—OTHER MATERIALS.

DR. No. 21.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1913 and 1914. CR.

Remaining in Warehouse from last year.	Warehoused.	Totals.	Provinces.	Entered for Consumption.		Remaining in Warehouse.	Totals.
				Quantity.	Duty.		
Lbs.	Lbs.	Lbs.	1913.	Lbs.	$ cts.	Lbs.	Lbs.
120,156	1,688,597	1,808,753	Quebec.....	1,615,596	258,495 36	193,157	1,808,753
			1914.				
193,157	1,384,297	1,577,454	Quebec.....	1,510,010	241,601 60	67,444	1,577,454

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—CANADA TWIST TOBACCO.

No. 22.—STATEMENT of Revenue collected from Canada Twist Tobacco for the Fiscal Year ended March 31, 1914.

Divisions.	Licenses.		Canada Twist, at 5 cts. per lb.	Total Duty Collected including License Fees.
	No.	Fees.		
		$	Lbs.	$ cts.
Ottawa, Ont.	2	4	460	27 00
Prescott, "	1	2	420	23 00
Totals	3	6	880	50 00
Montreal, Que.	21	42	10,177	550 85
Totals	21	42	10,177	550 85
Grand Totals	24	48	11,057	600 85

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—CANADA TWIST TOBACCO.

No. 23.—COMPARATIVE STATEMENT for the Fiscal Years ended March 31, 1913 and 1914.

Provinces.	Licenses.		Canada Twist, at 5 cts. per lb.	Total Duty Collected including License Fees.
	No.	Fees.		
1913.		$	Lbs.	$ cts.
Ontario	3	6	920	52 00
Quebec	28	56	16,615	886 75
Totals	31	62	17,535	938 75
1914.				
Ontario	3	6	880	50 00
Quebec	21	42	10,177	550 85
Totals	24	48	11,057	600 85

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—CIGARS.

No. 24.—RETURN of Manufactures for the Fiscal year ended March 31, 1914.

Divisions.	Licenses.		Total Raw Leaf Tobacco and other materials actually used.	Deficiencies Paying Duty.	Cigars at $3 per thousand.			Cigars at $2 per thousand.			Total Duty collected ex-Manufactory, including License Fees.
	No.	Fees.		Cigars.	Manufactured.	Paid Duty	Warehoused.	Manufactured.	Paid Duty.	Warehoused.	
		$ cts.	Lbs.	No.	No.	No.	No.	No.	No.	No.	$ cts.
Belleville, Ont.	1	50 00	4,015					217,350	22,900	194,450	95 80
Brantford "	6	275 00	74,466	6,097	2,400	2,400		3,901,700	2,638,675	1,263,025	5,571 75
Guelph "	7	350 00	50,643					2,568,670	1,302,195	1,266,475	2,954 39
Hamilton "	11	525 00	354,784		4,200	4,200		16,896,990	6,654,015	10,242,975	13,845 63
Kingston "	2	100 00	51,308					2,740,650	908,000	1,832,650	1,916 00
London "	24	1,175 00	799,151½	54,918	30,000	30,000		40,337,450	30,636,875	9,700,575	62,648 59
Ottawa "	2	100 00	10,514½					539,675	539,675		1,179 35
Owen Sound "	2	100 00	21,024					1,017,565	659,075	358,490	1,418 15
Perth "	3	150 00	5,440	5,391				260,075	199,375	60,700	559 53
Peterborough "	1	50 00	1,996					110,775	110,775		271 55
Port Arthur "	1	25 00	430¾					23,300	23,300		71 60
Prescott "	2	100 00	13,936					726,400	408,775	317,625	917 55
St. Catharines "	10	475 00	27,252					1,622,575	1,557,575	65,000	3,590 15
Stratford "	5	250 00	34,892¼	2,220				1,753,595	1,438,945	314,650	3,132 33
Toronto "	22	1,025 00	465,862	8,315	150	150		24,374,240	15,116,800	9,257,440	31,275 74
Winsdor "	5	250 00	109,913					5,834,195	5,587,495	246,700	11,424 99
Totals	104	5,000 00	2,025,627¾	76,971	36,750	36,750		102,925,205	67,804,450	35,120,755	140,873 10
Joliette, Que.	7	325 00	117,410	100				6,129,200	3,665,200	2,464,000	7,655 60
Montreal "	43	2,075 00	2,537,489¼	84,643	33,288	33,288		137,826,115	78,654,590	59,171,525	159,653 34
Quebec "	3	150 00	107,010		9,360	1,200	8,160	6,379,850	4,238,840	2,141,010	8,631 28
St. Hyacinthe "	5	250 00	83,728½					4,814,200	494,300	4,319,900	1,238 60
Sherbrooke "	6	300 00	171,165					9,278,110	3,984,910	5,293,200	8,269 82
Three Rivers "	3	150 00	12,921					733,075	583,400	149,675	1,316 80
Totals	67	3,250 00	3,029,723¾	84,743	42,648	34,488	8,160	165,160,550	91,621,240	73,539,310	186,765 44

St. John, N.B	3	125 00	64,268					3,486,025	670,800	2,815,225	1,466 60
Halifax, N.S	2	100 00	17,847					884,720	536,920	347,800	1,173 84
Pictou "	2	100 00	4,964					263,250	237,250	26,000	574 50
Totals	4	200 00	22,811					1,147,970	774,170	373,800	1,748 34
Winnipeg, Man	15	750 00	107,269	76,882	1,200	1,200		5,233,035	3,878,360	1,354,675	8,664 09
Moose Jaw, Sask	7	350 00	11,966	95				594,955	501,275	93,680	1,352 74
Calgary, Alta	13	625 00	94,219	31,258				4,582,550	4,582,550		9,852 61
Vancouver, B.C	30	1,450 00	117,783	79,239				6,108,035	5,801,460	306,575	13,211 40
Victoria "	12	600 00	39,376					2,040,250	2,040,250		4,680 50
Totals	42	2,050 00	157,159	79,239				8,148,285	7,841,710	306,575	17,891 90
Grand Totals	255	12,350 00	5,513,043½	349,188	80,598	72,438	8,160	291,278,575	177,674,555	113,604,020	368,614 82

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued*—CIGARS.

No. 25.—COMPARATIVE STATEMENT of Manufactures for the Fiscal Years ended March 31, 1913 and 1914.

Provinces.	Licenses.		Total Raw Leaf Tobacco and other Materials actually used.	Deficiencies Paying Duty.	Cigars at $3 per Thousand.			Cigars at $2 per Thousand.			Total Duty Collected ex-manufactory including License Fees.
	No.	Fees.		Cigars.	Manufactured.	Paid Duty	Warehoused.	Manufactured.	Paid Duty.	Warehoused	
1913.		$ cts.	Lbs.	No.	No.	No.	No.	No.	No.	No.	$ cts.
Ontario	102	5,025 00	2,303,572½	11,194	5,220	4,200	1,020	114,210,185	72,509,405	41,700,780	150,078 79
Quebec	68	3,250 00	2,953,147¼	343,898	6,642	4,650	1,992	157,059,460	93,848,060	63,211,400	191,647 87
New Brunswick	2	100 00	68,274					3,762,240	923,590	2,838,650	1,947 18
Nova Scotia	4	200 00	22,269					1,097,220	751,815	345,405	1,793 63
Manitoba	15	750 00	146,592½	23,779	3,006	3,006		7,052,255	5,658,220	1,394,035	12,123 00
Saskatchewan	8	300 00	9,495	2,415				602,525	602,525		1,509 85
Alberta	12	600 00	94,344	2,622				4,613,000	4,613,000		9,831 25
British Columbia	42	2,025 00	177,614	14	6,000	6,000		9,344,630	9,082,755	261,875	20,208 54
Totals	253	12,250 00	5,775,308¼	383,922	20,868	17,856	3,012	297,741,515	187,989,370	109,752,145	389,050 11

1914.												
Ontario	104	5,000 00	2,025,627¾	76,971	36,750	36,750	.....	102,925,205	67,804,450	35,120,755	140.873	10
Quebec	67	3,250 00	3,029,723¾	84,743	42,648	34,488	8,160	165,160,550	91,621,240	73,539,310	186,765	44
New Brunswick	3	125 00	64,268	.....	.....	.....	.....	3,486,025	670,800	2,815,225	1,466	60
Nova Scotia	4	200 00	22,811	.....	.....	.....	.....	1,147,970	774,170	373,800	1,748	34
Manitoba	15	750 00	107,269	76,882	1,200	1,200	.....	5,233,035	3,878,360	1,354,675	8,664	09
Saskatchewan	7	350 00	11,966	95	.....	.....	.....	594,955	501,275	93,680	1,352	74
Alberta	13	625 00	94,219	31,258	.....	.....	.....	4,582,550	4,582,550	.....	9,852	61
British Columbia	42	2,050 00	157,159	79,239	.....	.....	.....	8,148,285	7,841,710	306,575	17,891	90
Totals	255	12,350 00	5,513,043½	349,188	80,598	72,438	8,160	291,278,575	177,674,555	113,604,020	368,614	82

Memo:

Total number of cigars manufactured—

1913 297,762,383

1914 291,359,173

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister,

APPENDIX A—*Continued.*

DR. No. 26.—WAREHOUSE RETURN for the

Remaining in Warehouse from last year.	Warehoused.	Received from Other Divisions.		Totals.	Divisions.
		Removed during the year.	In Transit last year.		
No.	No.	No.	No.	No.	
82,950	194,450			277,400	...Belleville, Ont.
1,080,025	1,263,025			2,343,050	....Brantford "
281,785	1,266,475			1,548,260	....Guelph "
1,808,325	10,242,975	992,800	37,500	13,081,600	... Hamilton "
830,400	1,832,650			2,663,050	....Kingston "
3,880,235	9,700,575			13 580,810	....London "
50,000				50,000	....Ottawa "
	358,490			358,490	....Owen Sound "
	60,700			60,700	... Perth "
1,500				1,500	...Peterborough "
27,700	317,625			345,325	....Prescott "
	65,000			65,000	....St. Catharines "
51,600	314,650			366,250	....Stratford "
1,695,730	9,257,440	200,000		11,153,170	....Toronto "
368,250 | *a* 20,300 ⎫	246,700			635,250	....Windsor "
10,178,800	35,120,755	1,192,800	37,500	46,529,855	....Totals
436,950	2,464,000	10,000		2,910,950	....Joliette, Que.
9,328,470 | *a* 19,300 ⎫	59,171,525 | *b* 5,000 ⎫	4,263,425	167,500	72,955,220	... Montreal "
1,315,366 | *c* 1,992 ⎫	2,141,010 | *c* 8,160 ⎫			3,466,522	....Quebec "
30,325	4,319,900			4,350,225	... St. Hyacinthe "
2,488,265	5,293,200			7,781,465	....Sherbrooke "
114,950	149,675			264,625	....Three Rivers "
13,735,612	73,547,470 | *b* 5,000 ⎫	4,273,425	167,500	91,729,007	.....Totals
671,375	2,815,225			3,486,600	... St. John, N. B.
89,380	347,800			437,180	....Halifax, N.S.
16,000	26,000			42,000	....Pictou "
105,380	373,800			479,180	.....Totals
324,555	1,354,675			1,679,230	...Winnipeg, Man.
	93,680			93,680	....Moose Jaw, Sask.
60,500	306,575			367,075	....Vancouver, B.C.
25,076,222	113,612,180 | *b* 5,000 ⎫	5,466,225	205,000	144,364,627	.....Grand Totals

a Old foreign at $6 per M. *b* Re-warehoused. *c* Cigars at $3 per M.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

Fiscal Year ended March 31, 1914. CR.

Entered for Consumption.		Removed to Other Divisions.		Exported.	Remaining in Warehouse.	Totals.
Quantity.	Duty.	Warehoused in Divisions to which removed.	In Transit.			
No.	$ cts.	No.	No.	No.	No.	No.
185,000	370 00				92,400	277,400
1,231,100	2,462 20				1,111,950	2,343,050
1,272,900	2,545 80				275,360	1,548,260
10,213,275	20,426 55			5,025	2,863,300	13,081,600
2,006,000	4,012 00				657,050	2,663,050
10,588,060	21,176 12	29,800			2,962,950	13,580,810
50,000	100 00					50,000
244,250	488 50				114,240	358,490
15,000	30 00				45,700	60,700
1,500	3 00					1,500
271,875	543 75				73,450	345,325
20,000	40 00				45,000	65,000
321,500	643 00				44,750	366,250
9,614,005	19,228 01				1,539,165	11,153,170
434,225 } a 12,500 }	943 45				180,725 } o 7,800 }	635,250
36,481,190	73,012 38	29,800		5,025	10,013,840	46,529,855
1,784,950	3,569 90	315,900			810,100	2,910,950
58,269,070 } a 4,000 }	116,622 14	1,173,000			13,463,850 } a 15,300 }	72,955,220
2,694,775 } c 7,146 }	5,410 99				761,595 } c 3,006 }	3,466,522
54,350	108 70	3,947,525	117,500		230,850	4,350,225
5,837,445	11,674 89			7,500	1,936,520	7,781,465
172,600	345 20				92,025	264,625
68,854,336	137,731 82	5,436,425	117,500	7,500	17,313,246	91,729,007
2,713,600	5,427 20				773,000	3,486,600
328,575	657 15				108,605	437,180
16,000	32 00				26,000	42,000
344,575	689 15				134,605	479,180
1,334,255	2,668 51				344,975	1,679,230
93,680	187 36					93,680
302,075	604 15				65,000	367,075
110,123,711	220,320 57	5,466,225	117,500	12,525	28,644,666	144,364,627

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—CIGARS.

DR. No. 27.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1913 and 1914. CR.

Remaining in Warehouse from last year.	Warehoused.	Received from other Divisions.		Totals.	Provinces.	Entered for Consumption.		Removed to other Divisions.		Exported.	Written off.	Remaining in Warehouse.	Totals.
		Removed during the year.	In Transit last year.			Quantity.	Duty.	Warehoused in Divisions to which Removed.	In Transit.				
No.	No.	No.	No.	No.	1913.	No.	$ cts.	No.	No.	No.	No.	No.	No.
7,753,760	41,701,800	1,383,000	50,000	50,888,560	Ontario	40,709,760	81,874 54					10,178,800	50,888,560
12,600,225	63,213,392	1,687,750	25,000	77,526,367	Quebec	60,482,405	120,964 81	3,070,750	205,000	10,100	22,500	13,735,612	77,526,367
885,225	2,838,650			3,723,875	New Brunswick	3,052,500	6,105 00					671,375	3,723,875
51,950	345,405			397,355	Nova Scotia	291,975	583 95					105,380	397,355
512,690	1,394,035			1,906,725	Manitoba	1,582,170	3,164 34					324,555	1,906,725
17,400				17,400	Alberta	17,400	34 80						17,400
44,200	261,875			306,075	British Columbia	245,575	491 15					60,500	306,075
21,865,450	109,755,157	3,070,750	75,000	134,766,357	Totals	106,381,785	213,218 59	3,070,750	205,000	10,100	22,500	25,076,222	134,766,357
					1914.								
10,178,800	35,120,755	1,192,800	37,500	46,529,855	Ontario	36,481,190	73,012 38	29,800		5,025		10,013,840	46,529,855
13,735,612	73,547,470 *5,000	4,273,425	167,500	91,729,007	Quebec	68,854,336	137,731 82	5,436,425	117,500	7,500		17,313,246	91,729,007
671,375	2,815,225			3,486,600	New Brunswick	2,713,600	5,427 20					773,000	3,486,600
105,380	373,800			479,180	Nova Scotia	344,575	689 15					134,605	479,180
321,555	1,354,675			1,679,230	Manitoba	1,334,255	2,668 51					344,975	1,679,230
	93,680			93,680	Saskatchewan	93,680	187 36						93,680
60,500	306,575			367,075	British Columbia	302,075	604 15					65,000	367,075
25,076,222	113,612,180 *5,000	5,466,225	205,000	144,364,627	Totals	110,123,711	220,320 57	5,466,225	117,500	12,525		28,644,666	144,364,627

* Re-warehoused.

	1913.	1914.
Total duty collected, ex-manufactory and ex-warehouse	$ 590,018 70	$ 576,585 39
License fees	12,250 00	12,350 00
Totals	$ 602,268 70	$ 588,935 39

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

APPENDIX A—*Continued*—INSPECTION OF PETROLEUM.

No. 28.—RETURN of Inspected Petroleum and Naphtha shipped from Refineries, during the Fiscal Year ended March 31, 1914.

Divisions.	Licenses.		Petroleum.	Naphtha.	Totals.
	No.	Fees.			
		$	Gallons.	Gallons.	Gallons.
London, Ont.	3	3	21,197,049 55	8,104,519 40	29,301,568 95
Toronto, "	1	1	1,558,852 71	2,456,718 41	4,015,571 12
Windsor, "	1	1	230,426 40	54,450 80	284,877 20
Totals	5	5	22,986,328 66	10,615,688 61	33,602,017 27

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

APPENDIX A—*Continued*—INSPECTION OF PETROLEUM.

No. 29.—COMPARATIVE STATEMENT of Inspected Petroleum and Naphtha shipped from Refineries, during the Fiscal Years ended March 31, 1913 and 1914.

Provinces.	Licenses.		Petroleum.	Naphtha.	Totals.
	No.	Fees.			
1913.		$	Gallons.	Gallons.	Gallons.
Ontario.	5	5	22,485,437 34	6,880,761 85	29,366,199 19
1914.					
Ontario.	5	5	22,986,328 66	10,615,688 61	33,602,017 27

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

APPENDIX A—*Continued*—MANUFACTURES IN BOND.

No. 30.—RETURN of Manufactures for the

Divisions.	Licenses.		Materials Used.			
	No.	Fees.	Spirits.	Beer, Wines, &c.	Nitric Acid.	Mercury.
		$ cts.	Gallons.	Gallons.	Lbs.	Lbs.
Belleville, Ont.	1	50 00	7,413 97	103 00		
Brantford "	1	50 00	7,429 21	108 00*		
Hamilton "	3	150 00	23,114 47	355 10		
Kingston "	2	100 00	12,101 48	171 11		
Ottawa "	1	50 00	1,093 36	5 50		
Perth "	2	100 00				
Prescott "	1	300 00	30,398 61		149,793	16,427
Stratford "	1	25 00				
Toronto "	10	475 00	144,763 18	1,693 20		
Windsor "	10	500 00	28,271 46	250 22		
Totals	32	1,800 00	254,585 74	108 00* 2,578 13	149,793	16,427
Montreal, Que.	13	650 00	52,242 69	362 50		
Quebec "	1	50 00	14,294 07	280 00		
St. Hyacinthe "	2	100 00	1,828 35	155 00		
Sherbrooke "	1	300 00	39,252 92		181,076	22,925
Totals	17	1,100 00	107,618 03	797 50	181,076	22,925
St. John, N.B.	2	100 00	12,713 26	97 00		
Winnipeg, Man.	6	275 00	60,448 28	994 60		
Calgary, Alta.	2	75 00	8,779 49	44 00† 187 50		
Vancouver, B.C.	1	50 00	7,422 28	101 60		
Grand Totals	60	3,400 00	451,567 08	44 00† 108 00* 4,756 33	330,869	39,352

* Malt extract. † Vinegar.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

Fiscal Year ended March 31, 1914.

Manufactured.		Paid Duty ex-Manufactory.		Warehoused.		Total Duty Collected ex-Manufactory including License Fees.
Vinegar.	Crude Fulminate.	Vinegar.	Duty.	Vinegar.	Crude Fulminate.	
Gallons.	Lbs.	Gallons.	$ cts.	Gallons.	Lbs.	$ cts.
48,302 20		39,703 60	1,588 12	8,598 60		1,638 12
45,429 48		45,429 48	1,817 28			1,867 28
139,541 40		51,534 96	2,061 40	88,006 44		2,211 40
84,287 17		13,614 66	544 58	70,672 51		644 58
2,815 11		1,757 63	70 30	1,057 48		120 30
						100 00
	20,290				20,290	300 00
						25 00
932,242 90		111,738 53	4,469 53	820,504 37		4,944 53
156,831 61		156,831 61	6,273 23			6,773 23
1,409,449 87	20,290	420,610 47	16,824 44	988,839 40	20,290	18,624 44
258,815 55		190,618 43	7,624 79	68,197 12		8,274 79
83,515 87		71,240 43	2,849 56	12,275 44		2,899 56
10,181 99		4,945 39	197 83	5,236 60		297 83
	27,121				27,121	300 00
352,513 41	27,121	266,804 25	10,672 18	85,709 16	27,121	11,772 18
62,116 39		47,991 13	1,919 64	14,125 26		2,019 64
300,777 33		223,795 80	8,951 81	76,981 53		9,226 81
39,442 46		39,442 46	1,577 68			1,652 68
39,522 54		39,522 54	1,580 91			1,630 91
2,203,822 00	47,411	1,038,166 65	41,526 66	1,165,655 35	47,411	44,926 66

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—MANUFACTURES IN BOND.

No. 31.—Comparative Statement of Manufactures for

Provinces.	Licenses.		Materials Used.			
	No.	Fees.	Spirits.	Beer, Wines, &c.,	Nitric Acid.	Mercury.
1913.		$ cts.	Gallons.	Gallons.	Lbs.	Lbs.
Ontario	28	1,375 00	246,383 28	*109·15 2,250·06 †408·00		
Quebec	16	1,025 00	111,747 62	425·18	188,838	23,775
New Brunswick	2	100 00	17,754 83	161·80		
Manitoba	3	150 00	57,327 33	380·00		
British Columbia	1	50 00	7,615 53	113·20		
Totals	50	2,700 00	440,826 59	*109·15 †408·00 3,330·24	188,838	23,775
1914.						
Ontario	32	1,800 00	254,585 74	*108 00 2,578 13	149,793	16,427
Quebec	17	1,100 00	107,618 03	797 50	181,076	22,925
New Brunswick	2	100 00	12,713 26	97 00		
Manitoba	6	275 00	60,448 28	994 60		
Alberta	2	75 00	8,779 49	†44 00		
British Columbia	1	50 00	7,422 28	187 50 101 60		
Totals	60	3,400 00	451,567 08	†44 00 *108 00 4,756 33	330,869	39,352

* Malt extract. † Vinegar.

Inland Revenue Department,
Ottawa, June 1, 1914.

the Fiscal Years ended March 31, 1913 and 1914.

Manufactured.		Paid Duty ex-manufactory.		Warehoused.		Total Duty Collected ex-Manufactory including License Fees.
Vinegar.	Crude Fulminate.	Vinegar.	Duty.	Vinegar.	Crude Fulminate.	
Gallons.	Lbs.	Gallons.	$ cts.	Gallons.	Lbs.	$ cts.
1,545,688·09	.. ..	368,313·64	14,732 55	1,177,374·45	. . ..	16,107 55
369,232·70	27,493	269,319·27	10,772 71	99,913·43	27,493	11,797 71
100,604·81	.....	67,223·27	2,688 97	33,381·54	.....	2,788 97
334,025·78	.....	268,627·61	10,745 11	65,398·17	....	10,895 11
42,957·04	.....	38,063·69	1,522 56	4,893·35	....	1,572 56
2,392,508·42	27,493	1,011,547·48	40,461 90	1,380,960·94	27,493	43,161 90
1,409,449·87	20,290	420,610·47	16,824 44	988,839·40	20,290	18,624 44
352,513·41	27,121	266,804·25	10,672 18	85,709·16	27,121	11,772 18
62,116·39	....	47,991·13	1,919 64	14,125·26	....	2,019 64
300,777·33	.....	223,795·80	8,951 81	76,981·53	.....	9,226 81
39,442·46	.....	39,442·46	1,577 68	.....	.....	1,652 68
39,522·54	.....	39,522·54	1,580 91	.....	.....	1,630 91
2,203,822·00	47,411	1,038,166 65	41,526 66	1,165,655·35	47,411	44,926 66

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—MANUFACTURES IN BOND.

DR. No. 32.—WAREHOUSE RETURN for the

Remaining in Warehouse from last year.	Warehoused.		Received from other Divisions.	Totals.		Divisions.
			Vinegar.			
Vinegar.	Vinegar.	Crude Fulminate.	Removed during the year.	Vinegar.	Crude Fulminate.	
Gals.	Galls.	Lbs.	Galls.	Galls.	Lbs.	
8,168·16	8,598·60			16,766·76		Bellevile, Ont.
			21,742·40	21,742·40		Brantford "
23,732·93	88,006·44		3,616·89	115,356 26		Hamilton "
22,566·42	70,672·51			93,238·93		Kingston "
9,283·66	1,057·48			10,341·14		Ottawa "
		20,290			20,290	Prescott "
263,290·97	820,504·37			1,083,795 34		Toronto "
327,042·14	988,839·40	20,290	25,359·29	1,341,240·83	20,290	Totals
36,923·47	68,197·12			105,120·59		Montreal, Que.
17,092·11	12,275·44			29,367·55		Quebec "
47,448·20	5,236·60			52,684·80		St. Hyacinthe, Que.
		27,121			27,121	Sherbrooke, Que.
101,463·78	85,709·16	27,121		187,172·94	27,121	Totals
33,967·03	14,125·26			48,092·29		St. John, N.B.
58,925·84	76,981·53			135,907·37		Winnipeg, Man.
4,893·35				4,893·35		Vancouver, B.C.
526,292 14	1,165,655·35	47,411	25,359·29	1,717,306·78	47·411	Grand Totals

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

Fiscal Year ended March 31, 1914. CR.

Entered for Consumption.		Removed to other Divisions. — Vinegar.	Exported.	Remaining in Warehouse.	Totals.	
Vinegar.	Duty.	Warehoused in Divisions to which removed.	Crude Fulminate.	Vinegar.	Vinegar.	Crude Fulminate.
Galls.	$ cts.	Galls.	Lbs.	Galls.	Galls.	Lbs.
8,168·16	326 73	.....	.....	8,598 60	16,766·76	.....
21,742·40	869 70	.....	.....	.....	21,742·40	.....
75,421·73	3,016 86	.....	.....	39,934·53	115,356·26	.....
71,258 74	2,550 38	.....	.....	21,980·19	93,238·93	.....
10,341·14	413 65	.....	.....	.....	10,341·14	.....
.....	.....	.....	20,290	.....	.....	20,290
767,974 10	30,718 97	25,359·29	.....	290,461 95	1,083,795·34	.....
954,906·27	38,196 29	25,359·29	20,290	360,975 27	1,341,240·83	20,290
50,864·72	2,034 59	.....	.....	54,255·87	105,120·59	.....
17,092·11	683 68	.....	.....	12,275·44	29,367·55	.....
52,684·80	2,107 38	.....	.....	.....	52,684·80	.....
.....	.....	.....	27,121	.....	.....	27,121
120,641·63	4,825 65	.....	27,121	66,531 31	187,172·94	27,121
24,192·44	967 73	*35·70	.....	23,864·15	48,092·29	.....
76,208·13	3,048 32	.....	.....	59,699·24	135,907·37	.....
4,893·35	195 73	.....	.....	.....	4,893·35	.....
1,180,841·82	47,233 72	*35·70 25 359·29	47,411	511,069·97	1,717,306·78	47,411

* Written off.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—MANUFACTURES IN BOND.

DR. No. 33.—COMPARATIVE STATEMENT of Warehouse Returns

Remaining in Warehouse from last year.	Warehoused.		Received from other Divisions.	Totals		Provinces.
			Vinegar.			
Vinegar.	Vinegar.	Crude Fulminate.	Removed during the year.	Vinegar.	Crude Fulminate.	
Galls.	Galls.	Lbs.	Galls.	Galls.	Lbs.	1913.
193,976·82	1,177,374·45	.....	23,356·22	1,394,707·49	.....	Ontario.....
109,382·49	99,913·43	27,493	.....	209,295·92	27,493	Quebec.....
8,149·21	33,381·54	.....	.....	41,530·75	.....	New Brunswick....
38,082·56	65,398·17	.....	8,780·97	112,261·70	.....	Manitoba.....
4,834·80	4,893·35	.....	.....	9,728·15	.....	British Columbia....
354,425·88	1,380,960·94	27,493	32,137·19	1,767,524·01	27,493	....Totals.....
						1914.
327,042·14	988,839·40	20,290	25,359·29	1,341,240·83	20,290	
101,463·78	85,709·16	27,121	.....	187,172·94	27,121	Ontario.....
33,967·03	14,125·26	.....	.....	48,092·29	.....	Quebec.....
58,925·84	76,981·53	.....	.....	135,907·37	.....	New Brunswick ....
4,893·35	.....	.....	.....	4,893·35	.....	Manitoba.....
						British Columbia....
526,292·14	1,165,655·35	47,411	25,359·29	1,717,306·78	47,411	....Totals.....

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

for the Fiscal Years ended March 31, 1913 and 1914. CR,

Entered for Consumption.		Removed to other Divisions. — Vinegar.	Exported.	Remaining in Warehouse.	Totals.	
Vinegar.	Duty.	Warehoused in Divisions to which removed.	Crude Fulminate.	Vinegar.	Vinegar.	Crude Fulminate.
Galls.	$ cts.	Galls.	Lbs.	Galls.	Gals.	Lbs.
1,035,528·16	41,421 07	32,137·19		327,042 14	1,394,707·49	
106,201·39	4,248 02	*1,630·75	27,493	101,463·78	209,295·92	27,493
7,563·72	302 55			33,967·03	41,530·75	
53,335·86	2,133 44			58,925·84	112,261·70	
4,834·80	193 39			4,893·35	9,728·15	
		*1,630·75				
1,207,463·93	48,298 47	32,137·19	27,493	526,292·14	1,767,524 01	27,493
954,906·27	38,196 29	25,359·29	20,290	360,975·27	1,341,240·83	20,290
120,641·63	4,825 65		27,121	66,531·31	187,172·94	27,121
24,192·44	967 73	*35·70		23,864 15	48,092·29	
76,208·13	3,048 32			59,699·24	135,907·37	
4,893·35	195 73				4,893·35	
		*35·70				
1,180,841·82	47,233 72	25,359 29	47,411	511,069 97	1,717,306·78	47,411

*Written off.

	1913.	1914.
Total duty collected, ex-manufactory and ex-warehouse	$ 88,760 37	$ 88,760 38
License fees	2,700 00	3,400 00
Totals	$ 91,460 37	$ 92,160 38

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued.*—ACETIC ACID.

No. 34.—RETURN of Manufactures for the Fiscal Year ended March 31, 1914.

Divisions.	Licenses.		Manufactured.	Paid Duty ex-Manufactory.		Total Duty Collected ex-Manufactory including License Fees.
	No.	Fees.	Acetic Acid.	Acetic Acid.	Duty.	
		$ cts.	Galls.	Galls.	$ cts.	$ cts.
Hamilton, Ont.	1	25 00				25 00
Montreal, Que.	1	50 00	283,439 54	283,439 54	11,337 59	11,387 59
Totals.	2	75 00	283,439 54	283,439 54	11,337 59	11,412 59

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

APPENDIX A—*Continued.*—ACETIC ACID.

No. 35.—COMPARATIVE STATEMENT of Manufactures for the Fiscal Years ended March 31, 1913 and 1914.

Provinces.	Licenses.		Manufactured.	Paid Duty ex-Manufactory.		Total Duty Collected ex-Manufactory including License Fees.
	No.	Fees.	Acetic Acid.	Acetic Acid.	Duty.	
1913.		$ cts.	Galls.	Galls.	$ cts.	$ cts.
Quebec	1	50 00	261,890 28	261,890 28	10,475 60	10,525 60
1914.						
Ontario	1	25 00				25 00
Quebec	1	50 00	283,439 54	283,439 54	11,337 59	11,387 59
Totals	2	75 00	283,439 54	283,439 54	11,337 59	11,412 59

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

(A)

METHYLATED SPIRITS.

No. 36.—STATEMENT showing the quantity of Raw Materials on hand on April 1, 1913, and March 31, 1914, and brought in during the year ended March 31, 1914.

DR. CR.

Names of Articles.	Stock on hand April 1, 1913.	Brought in during the year.	Total to be Accounted for.	Used in manufacture of Methylated Spirits.	Sold.	Stock on hand March 31, 1914.	Total Accounted for.
	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.
Alcohol	5,847·13	211,140·62	216,987·75	213,059·75	69·46	3,858·54	216,987·75
Wood Naphtha	1,882 88	38,574 53	40,457·41	35,723·17	.....	4,734 24	40,457·41
		Imp. galls.	Imp. galls.	Imp. galls.			Imp. Galls.
Gasoline	.....	818·00	818 00	818·00	....	.....	818 00

(B)

STATEMENT showing the quantity of Raw Materials used, and Methylated Spirits produced therefrom.

DR. CR.

Alcohol used Statement (A) above.	Wood Naphtha used Statement (A) above.	Gasoline used Statement (A) above.	Total to be Accounted for.	Methylated Spirits produced.	Lost in Manufacture.		Total Accounted for.
Pr'f galls.	Pr'f galls.	Imp. galls.	Pr'f galls	Pr'f galls.	Pr'f galls.	p.c.	Pr'f galls.
213,059·75	35,723·17	818·00	249,600·92	246,686·40	2,914 52	1·02	249,600·92

(C)

STATEMENT showing the quantity of Methylated Spirits on hand April 1, 1913, and March 31, 1914, quantity manufactured sold and otherwise accounted for during the year ended March 31, 1914.

DR. CR.

Stock on hand April 1. 1913.	Manufactured as per Statement (B) above.	Brought in during the year.	Total to be Accounted for.	Sold.	Re-used in manufacture.	Stock on hand, March 31, 1914.	Total Accounted for.
Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.
3,257·43	246,686·40	.....	249,943·83	244,599·13	.....	5,344·70	249,943·83

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister

APPENDIX B.

No. 1.—Details of Excise Expenditures for the Year ending March 31, 1914.

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee.		
	Belleville.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Her, B.	Salary as Collector for the year			7 20	2,792 76	
Cook, W. J	" Deputy Collector Class "A" for the year		91 20 / *51 36	3 60	1,678 80	
Standish, J. G	" Special Class Exciseman for the year	43 92		3 96	2,152 08	
Brown, W. J	" " " "		77 40 / *23 76	4 32	1,444 44	
McFee, A. C	" 1st Class Exciseman for the year	52 44		2 88	1,444 68	
Wilson, H. R	" 1st " "		66 24	2 88	1,255 80	
Sprague, F. W	" 2nd " "		59 34	2 88	1,125 24	
Lally, J. E	" 3rd " "		49 92 / *38 50	2 88	908 66	
Treverton, C. B	" 3rd " "		36 18	2 88	685 89	
Allen, B. K.	" 3rd " Prob. from Dec. 1, 1913		10 00	0 72	189 28	
	Salaries	96 36	503 90	34 20	13,677 63	
	Contingencies				2,553 26	
						16,230 89
	Brantford.					
O'Donohue, M. J.	Salary as Collector for the year	39 96		7 20	1,952 76	
Sloan, W	" Deputy Collector Class "A" for the year		75 00	3 60	1,421 40	
Fairley, W	" " Class "B" "		39 96	2 88	757 08	
Orr, H. N.	" 1st Class Exciseman for the year	52 44		2 88	1,444 68	
Newsome, I	" 2nd " "		62 40	2 88	1,184 64	
Schuler, F. C	" 2nd " "		59 34	2 88	1,125 24	
	Salaries	92 40	236 70	22 32	7,885 80	
	Contingencies				1,244 87	
						9,130 67
	Guelph.					
Powell, J. B	Salary as Collector for the year			7 20	2,792 76	
Till, T. M	" Deputy Collector Class "A" for the year	39 96		3 60	1,956 36	

Dawson, W.	"	Special Class Exciseman, superannuated March 1, 1914	40 26		2 16	1,974 2	
Gerald, W. H.	"	" " transferred from Prescott Division, Oct. 1, 1913	21 96		2 16	1,075 86	
Broadfoot, S	"	Accountant for the year	36 00		4 32	1,759 68	
Spence, F H	"	1st Class Exciseman for the year	30 00		2 88	1,467 12	
Bowman, A.	"	1st " "	30 00		2 88	1,467 12	
Egener, A.	"	1st " "	30 00		2 88	1,467 12	
Altemann, P. J	"	1st " "	52 44		2 88	1,444 68	
Coutts, J. J	"	1st " "		75 00	2 88	1,422 12	
Hanlon, J. R.	"	1st " "		63 60	2 88	1,207 23	
Martin, N.	"	1st " "		68 13	2 88	1,292 70	
Thomas, F. W.	"	1st " "		63 60	2 88	1,207 23	
O'Brien, E. C.	"	2nd " "	24 96		2 88	1,222 08	
Howie, A.	"	3rd " "	19 92		2 88	977 16	
Uffelmann, Adam.	"	3rd " Prob. from Oct. 1, 1913		15 00	1 44	283 56	
Feik, Louis	"	3rd " Prob. from Dec. 1, 1913		10 00	0 72	189 28	
		Salaries	325 50	295 33	50 40	23,206 27	
		Contingencies				1,741 64	
							24,947 91
		Hamilton.					
Miller, F. W	Salary as Collector for the year				14 40	2,785 56	
O'Brien, J	"	Deputy Collector Class "A" for the year		99 96	7 20	1,892 76	
Cameron, D. M.	"	Special Class Exciseman, superannuated Sept. 1, 1913			1 80	664 85	
Baby, W. A. D.	"	" " for the year			4 32	2,195 64	
O'Brien, J. F.	"	" " "	31 92		4 32	1,563 72	
Cheseldine, J. H.	"	" " "		79 92 *65 28	4 32	1,450 44	
Dumbrille, R. W.	"	Accountant for the year	30 00		4 32	1,465 68	
Hayhurst, T. H.	"	1st Class Exciseman for the year		75 00	2 88	1,422 12	
Boyd, J. F. S.	"	1st " "	52 44		2 88	1,444 68	
Lawlor, J. J	"	1st " "		75 00	2 88	1,422 12	
Elliot, W. J	"	1st " "		66 24 *29 76	2 88	1,226 04	
Kirkpatrick, H. J.	"	1st " "		63 60	2 88	1,207 23	
Amer, W.	"	2nd " "	24 96		2 88	1,222 08	
Ballentine, A.	"	2nd " "		59 34	2 88	1,125 24	
Hiscott, J. O.	"	2nd " "		51 54 *27 96	2 88	950 04	
Mitchell, J. L	"	2nd " "		59 34	2 88	1,125 24	
Beasley, M. C	"	3rd " "		49 44	2 88	937 65	
Griffin, P. F	"	3rd " "		48 69	2 88	923 40	
Henderson, G. D.	"	3rd " "		43 74 *30 94	2 88	797 42	
Blackman, C.	"	Messenger		39 96	2 88	757 08	
		Salaries	139 32	965 71	78 12	26,578 99	
		Contingencies				787 18	
							27,366 17

* Insurance.

APPENDIX B—No. 1.—Details of Excise Expenditures for the year ending March 31, 1914.—*Continued.*

To whom paid.	Services.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Kingston.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Grimason, T	Salary as Collector for the year	36 00		7 20	1,756 80	
Hanley, A	" Deputy Collector for the year (Class "A.")	25 44		3 60	1,245 96	
Montgomery, W. H	" 2nd Class Exciseman for the year		62 40	2 88	1,184 64	
Fahey, E	" 3rd " "			2 88	997 08	
Hogan, J	" 3rd " "		49 92	2 88	947 16	
Frizell, W	" 3rd " Prob. from 1st Dec. 1913		10 00	72	189 28	
O'Donnell, J	" Messenger for the year	19 92		2 88	977 16	
	Salaries	81 36	122 32	23 04	7,298 08	
	Contingencies				512 25	
						7,810 33
	London.					
Davis, T. G	Salary as Collector for the year			7 20	2,092 80	
Thrasher, W. A	" Deputy Collector Class "A" for the year		99 96 77 52*	3 60	1,818 84	
Girard, Irénée	" " " "A" "	31 92		3 60	1,564 44	
Coles, F. H	" Accountant for the year			4 32	1,795 68	
Wilson, D	" Ass't Accountant for the year	27 00		2 88	1,320 12	
Whitehead, J. P	" Deputy Collector Class "B" for the year		37 44	2 88	709 68	
Fiddes, J	" " "B" "		39 96	2 88	757 08	
Cousin, T	" " "B" from 9th June, 1913		48 66	2 33	922 34	
Hicks, W. H	" " "B" " 1st Aug. 1913. Transf'd from Stratford	16 00		1 92	782 08	
Lee, E	" 1st Class Exciseman for the year	30 00		2 88	1,467 12	
Boyle, P	" " Superannuated 1st July, 1913	11 25	17 91*	72	345 69	
Foster, H	" 1st " for the year	52 44		2 88	1,444 68	
Webbe, C. E. A	" 2nd " "	24 96		2 88	1,222 08	
Tracy, J. P	" 2nd " Died 21st February, 1914	22 88		2 64	1,120 24	
Talbot, J	" 3rd " for the year		49 92	2 88	947 16	
Pleasance, W	" 3rd " "		49 92	2 88	947 16	
Farnworth, F. H	" 3rd " "		32 75	2 88	620 18	
Robinson, John T	" 3rd " from 1st Nov. 1913. Tranferrrd from W. & M. Div.		16 65	1 20	315 45	
Tytler, J. M	" Stenographer and Typewriter for the year		33 03		629 40	
	Salaries	216 15	503 75	53 45	20,821 62	
	Contingencies				2,795 85	
						23,617 47

	Ottawa.					
Freeland, A	Salary as Collector for the year		99 96	7 20	1,892 76	
McGuire, T	" Deputy Collector Class "A" for the year		75 00	3 60	1,421 40	
Bennett, J	" " " "B" "		62 40	2 88	1,184 64	
Laporte, G	" " " "B" "	24 00		2 88	1,173 12	
Ladouceur, A	" " " "B" "		15 00	2 88	282 12	
Fox, T	" 1st Class Exciseman for the year			2 88	1,497 12	
Noonan, J. M	" 3rd " "		49 05	2 88	930 54	
Chisholm, J. A	" 3rd " "		36 18	2 88	685 89	
	Salaries	24 00	337 59	28 08	9,067 59	
	Contingencies				1,598 07	
						10,665 66
	Owen Sound.					
Graham, W. J	" Salary as Collector for the year			3 60	1,796 40	
Chisholm, W. N	" Deputy Collector Class "A" for the year	25 92		3 60	1,270 44	
Cryderman, C. W	" " " "B" "		45 00	2 88	852 12	
Johnson, J. J	" 1st Class Exciseman for the year	30 00	75 00	2 88	1,467 12	
Blyth, A	" 1st " " "			2 88	1,422 12	
	Salaries	55 92	120 00	15 84	6,808 20	
	Contingencies				637 59	
						7,445 79
	Perth.					
Noonan, H. T	Salary as Acting Collector for the year		71 16 63 36*	3 60	1,286 88	
Mason, F	" Special Class Exciseman for the year			4 32	2,195 64	
Clarke, T	" Deputy Collector Class "B" for the year		45 00	2 88	852 12	
McNaughton, J. C	" " " "B" "		39 96	2 88	757 08	
Rowan, W. E	" " " "B" "		30 00	2 88	567 12	
Baikie, D	" " " "B" "		39 96	3 60	756 36	
Georges, J	" " " "B" "		24 96	2 88	472 08	
Maurice, E	" " " "B" "		24 96	2 88	472 08	
Armstrong, T. E	" 3rd Class Exciseman for the year		48 69	2 88	923 40	
Miller, R. M	" 3rd " "		38 70	2 88	733 35	
Meighen, R. S	" 3rd " " Prob. from Dec. 1, 1913 to March 31, 1914		10 00	72	189 28	
MacMartin, A	" 3rd " " " " " "		10 00	48	189 52	
	Salaries		446 75	32 88	9,394 91	
	Contingencies				2,566 81	
						11,961,72

*Insurance.

APPENDIX B—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1914.—*Continued.*

hom paid.	Service.	Deductions for Super-annuation.	Deductions for Retirement.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Peterborough.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Rork, T.	Salary as Deputy Collector Class "A" for the year		54 96	3 60	1,041 36	
Bickle, J. W.	" " " "B" "	18 96		2 88	928 08	
	Salaries	18 96	54 96	6 48	1,969 44	
	Contingencies				1,509 92	
						3,479 36
	Port Arthur.					
Bridgman, M. W.	Salary as Collector for the year		90 00	3 60	1,706 40	
Barnes, G.	" Deputy Collector Class "B" for the year		32 40	2 88	614 64	
Smith, B. H.	" 2nd Class Exciseman for the year		50 58	2 88	959 04	
Wink, J. C.	" 3rd " "		49 92	2 88	947 16	
	Salaries		222 90	12 24	4,227 24	
	Contingencies				914 06	
						5,141 30
	Prescott.					
Melville, T. R.	Salary as Collector for the year		120 00	7 20	2,272 80	
White, J. B.	" Deputy Collector Class "A" for the year		91 20	3 60	1,730 16	
Gerald, W. H.	" Special Class Exciseman, transferred to Guelph on Oct. 1, 1913	21 96		2 16	1,075 86	
Murray, D.	" " " from Quebec on Oct. 1, 1913	15 96		2 16	781 86	
Wood, J. A.	" Deputy Collector Class "B" for the year			2 88	997 08	
Bissell, C. H.	" " "B" "		47 40	2 88	899 64	
Dunkin, W. H.	" " "B" "		38 57	3 60	729 80	
McPherson, E. A.	" 1st Class Exciseman for the year		68 13 140 40† 44 64*	2 88	1,107 66	
Byrnes, W. P.	" 3rd " "		48 96	2 88	928 14	
Granton, C.	" 3rd " "		49 92	2 88	947 16	
McNally, E.	" 3rd " from June 1, 1913 to March 31, 1914		26 64	2 40	504 28	
	Salaries	37 92	675 86	35 52	11,974 41	
	Contingencies				1,542 73	
						13,517 17

		St. Catharines.					
Hesson, C. A.	Salary as Collector for the year	31 92		3 60	1,564 44		
Johnston, H. J.	" Deputy Collector Class "A" for the year		54 96	2 88	1,042 08		
Simpson, W. A.	" 1st Class Exciseman "		75 00	2 88	1,422 12		
Milliken, E.	" 2nd " "			2 88	1,247 04		
Schram, R. L. H.	" 2nd " "	43 68		2 88	1,203 36		
	Salaries	75 60	129 96	15 12	6,479 04		
	Contingencies				323 33		
						6,802 37	
	Stratford.						
Rennie, Geo.	Salary as Collector for the year			7 20	1,992 72		
Tobin, T. S.	" Deputy Collector Class "A" for the year		75 00 97 92*	3 60	1,323 48		
Jeffrey, A. J.	" Accountant "		64 92 101 52*	4 32	1,129 20		
Hicks, W. H.	" Deputy Collector Class "B" from April 1, 1913, transferred to London Aug. 1, 1913	8 00		0 96	391 04		
Dalton, M. J.	" Deputy Collector Class "B" for the year		49 92	3 60	916 44		
Relihan, Jas.	" " " "B" from April 1 to Oct. 31, 1913. Died Oct. 27, 1913		2 87	2 10	53 34		
Billings, W.	" Deputy Collector Class "B" from Dec. 16, 1913 to March 31, 1914		1 45	1 06	26 77		
Young, R. E.	" 1st Class Exciseman from April 1 to Oct. 1, 1913. Transferred to Toronto.		37 50 37 08*	1 44	673 98		
	Salaries	8 00	468 18	24 28	6,536 97		
	Contingencies				738 32		
						7,275 29	
	Toronto.						
Frankland, H. R.	Salary as Collector for the year		139 92 113 04*	14 40	2,532 60		
Mackenzie, J. H.	" Deputy Collector Class "A" for the year		99 96	3 60	1,896 36		
Gerald, C.	" Special Class Exciseman "			4 32	2,195 64		
Jamieson, R. C.	" " " "	36 00		4 32	1,759 68		
Graham, W. T.	" " " "	31 92		4 32	1,563 72		
Doyle, R. J.	" " " "	30 96		4 32	1,514 64		
Hurst, L. B.	" " " "	31 92		4 32	1,563 72		
Graham, A. L.	" " " "		79 92	4 32	1,515 72		
Burns, R. J.	" " " "		79 92	4 32	1,515 72		
Boomer, J. B.	" Accountant "	36 00		4 32	1,759 68		
Coulter, A.	" " "	52 44		2 88	1,444 68		
Ritchie, H.	" " "		75 00	7 20	1,417 80		
Shanacy, M.	" Deputy Collector Class "B" for the year	21 96		2 88	1,075 08		
Elliot, T. H.	" " " "B" "		69 96 41 76*	2 88	1,285 32		
Coleman, C.	" " " "B" Superannuated Sept. 1, 1913	9 15		0 48	358 84		
Dager, H. J.	" " " "B" for the year		49 92	2 88	947 16		

* Insurance. † Annuity.

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1914.—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Toronto—Con.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Hall, W. H.	Salary as Deputy Collector "B" from Nov. 1, 1913 to March 31, 1914	.....	25 00	1 20	473 80	
Helliwell, H. N.	" 1st Class Exciseman for the year	30 00	.....	2 88	1,467 12	
O'Leary, T. J.	" 1st " "	30 00	.....	2 88	1,467 12	
Cook, W. R	" 1st " "	30 00	.....	2 88	1,467 12	
Falconer, R. H.	" 1st " "	.....	75 00	2 88	1,422 12	
Gillies, A. L	" 1st " "	.....	75 00	2 88	1,422 12	
Walsh, W. H.	" 1st " "	.....	70 65	2 88	1,340 22	
Dunbar, G. E.	" 1st " "	.....	62 40	2 88	1,184 64	
Johnston, E. J. A.	" 1st " "	.....	55 89	2 88	1,059 90	
Young, R. E.	" 1st " Transferred from Stratford Oct. 1, 1913	.....	37 50 37 08*	1 44	673 98	
Barber, J. S.	" 2nd " for the year	24 96	.....	2 88	1,222 08	
Oliver, J. T.	" 2nd " "	.....	59 34 49 92*	2 88	1,075 32	
Sykes, W. J.	" 2nd " "	.....	58 20	2 88	1,103 88	
Young, J. J	" 2nd " "	.....	53 07 19 92*	2 88	986 55	
Abbott, H. F.	" 2nd " "	.....	50 58	2 88	959 04	
Jones, A.	" 3rd " "	19 92	.....	2 88	977 16	
Shorey, A. B.	" 3rd " "	.....	48 69	2 88	923 40	
Eakins, G. G.	" 3rd " "	.....	43 74	2 88	828 36	
MacKay, J. C.	" 3rd " "	.....	37 44 39 84*	2 88	669 78	
Mather, A. P.	" 3rd " "	.....	39 96	2 88	757 08	
Fielding, L. G.	" Stenographer and typewriter for the year	.....	34 92	.....	665 04	
Sloan, J. B.	" Messenger for the year	.....	30 00	2 88	597 12	
	Salaries	385 23	1,753 54	129 12	47,149 14	
	Contingencies	.....	.....	.....	5,042 89	
						52,192 03
	Windsor.					
McSween, Jas.	Salary as Collector for the year	.....	.....	14 40	2,785 56	
Marion, H. R.	" Deputy Collector Class "A" for the year	.....	99 96	7 20	1,892 76	
Bouteiller, G. A.	" Special Class Exciseman "	43 92	.....	4 32	2,151 72	
Brennan, J.	" " " " "	31 92	.....	4 32	1,563 72	
Lane, T. M.	" " " " "	30 48	.....	4 32	1,490 19	

Belleperche, A. J. E.	"	Accountant for the year		99 00	4 32	1,705 68		
Dunlop, C	"	Deputy Collector Class "B" for the year			3 60	1,496 40		
Keogh, P. M.	"	" " " "	21 00		3 60	1,172 40		
Thomas, R.	"	1st Class Exciseman "	30 00		2 88	1,467 12		
Bayard, G. A.	"	" " " "	30 00		2 88	1,467 12		
Berry, H. L.	"	" " " "		75 00 / *74 16	2 88	1,317 96		
Neil, J.	"	" " " "		75 00	2 88	1,422 12		
Bénéteau, S.	"	" " " "		75 00	2 88	1,422 12		
Lyons, E.	"	" " " "	30 00		2 88	1,467 12		
Love, G. G.	"	2nd " " "		62 40	2 88	1,184 64		
Falconer, J.	"	3rd " " "			2 88	997 08		
Cahill, J. N.	"	" " " "	19 92		2 88	997 16		
Adam, A. R	"	" " " "		49 92 / *84 96	2 88	862 20		
Bergeron, R. J.	"	" " " "		49 92 / *49 92	2 88	897 24		
Cummingford, F. D.	"	" " " "		49 05 / *56 16	2 88	874 38		
Morforton, E. R.	"	" " " "		45 00	2 88	852 12		
Niven, T. D.	"	" " " "		42 48	2 88	804 60		
Bezaire, T. M.	"	" " " "		39 96	2 88	757 08		
Moynaham, J.	"	" " " " resigned July 1, 1913		7 69	0 72	145 47		
Fry, J.	"	" " " " for the year		34 10	2 88	646 32		
O'Neil, G.	"	" " " " from July 14, 1913, to March 31, 1914		22 51	2 05	425 95		
Leggart, A. E.	"	Stenographer and Typewriter, Appt. Prob. Dec. 1, 1913, to March 31, 1914		10 00		190 00		
		Salaries	240 24	1,093 19	94 93	32,466 23		
		Contingencies				2,682 55		
							35,148 78	
		Joliette.						
Mainville, C. P.	Salary as Collector for the year		38 43		5 40	1,981 12		
Gamache, J. N.	"	Deputy Collector Class "A" for the year		84 34 / *35 04	3 60	1,565 64		
Snowdon, J. W.	"	Special Class Exciseman "		94 92	4 32	1,800 72		
Normandin, G.	"	1st Class Exciseman from April 1 to Oct. 1, 1913, and as Special Class Exciseman from Oct. 1, 1913, to March 31, 1914		75 00	3 60	1,421 40		
Richard, J. B. F.	"	Deputy Collector Class "B" for the year		12 48	3 60	233 88		
Gariépy, L. N.	"	2nd Class Exciseman "		59 34	2 88	1,125 24		
Olivier, H.	"	3rd " " "		49 92	2 88	947 16		
Olivier, J. A.	"	" " " "		34 10	2 88	646 32		
Barrette, J. E.	"	" " " " from June 1, 1913, to March 31, 1914		26 64	2 40	504 28		
		Salaries	38 43	471 83	31 56	10,125 76		
		Contingencies				4,241 55		
							14,367 31	

†Annuity. *Insurance.

APPENDIX B—No. 1.—Details of Excise Expenditures for the year ended March 31, 1914.—*Continued.*

To whom paid.	Service.	Deductions for			Amounts paid.	Total amount paid.
		Superannuation.	Retirement.	Guarantee.		
	Montreal.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Bernier, J. A.	Salary as Deputy Collector Class "A" from April 1 to June 30, 1913, and Collector from July 1, 1913, to March 31, 1914	.....	101 55	12 60	1,917 09	
Caven, W.	" Collector from April 1, to June 30, 1913. Promoted Insp. July 1, 1913	12 00	.....	3 60	584 40	
Hudon, M. L. E.	" Deputy Collector Class "A" for the year	67 50	.....	7 20	1,856 55	
Renaud, A. H.	" " " " "B" from April 1, to July 1, 1913, and Deputy Coll. Class "A" from July 1, 1913 to March 31, 1914	55 05	.....	6 12	1,513 80	
Walsh, D. J.	" Special Class Exciseman for the year	42 00	.....	4 32	2,053 68	
Kearney, D. J.	" " " " "	.....	79 92	4 32	1,515 72	
Forest, E. R.	" Accountant for the year	30 00	.....	7 20	1,462 80	
Fox, J. D.	" " " "	36 00	.....	4 32	1,759 68	
Chagnon, C. P.	" Deputy Collector Class "B" for the year	.....	60 00	7 20	1,132 80	
Patterson, C. E. A.	" " " "B" "	.....	47 40	3 60	898 92	
St. Michel, F. X.	" " " "B" "	.....	24 96	3 60	171 36	
Lefebvre, A.	" " " "B" "	.....	49 92	3 60	916 44	
Scullion, W. J.	" 1st Class Exciseman "	30 00	.....	2 88	1,467 12	
Desaulniers, J. E. A.	" 1st " "	.....	75 00	2 88	1,122 12	
Bousquet, J. O.	" 1st " "	.....	75 00 *56 48	2 88	1,365 64	
Harwood, J. O. A.	" 1st " "	.....	*42 48 66 24	2 88	1,213 32	
McGuire, L. J.	" 1st " "	.....	66 93	2 88	1,268 91	
Longtin, H.	" 1st " "	.....	70 65	2 88	1,340 22	
David, T.	" 1st " "	.....	70 65	2 88	1,340 22	
Milot, J. F.	" 1st " "	.....	66 24	2 88	1,255 80	
Dumouchel, L.	" 2nd " "	24 96	.....	2 88	1,222 08	
Courtney, J. J.	" 2nd " "	24 96	.....	2 88	1,222 08	
Dixon, H. G. S.	" 2nd " "	24 96	.....	2 88	1,222 08	
Andrews, A. A.	" 2nd " "	43 68	.....	2 88	1,293 36	
Codd, H. J.	" 2nd " from April 1 to Oct. 1, 1913. Died Oct. 4, 1913	14 56	.....	1 68	712 88	
Laurier, J. L.	" 2nd " for the year	.....	62 40 *83 52	2 88	1,191 12	
Brabant, J. B. G. N.	" 2nd " "	24 96	.....	2 88	1,222 08	
Comte, L. A. A. J.	" 2nd " "	37 32	.....	2 88	1,027 20	
Lambert, J. A.	" 2nd " "	.....	62 40	2 88	1,184 64	

Lamoureux, J. A.	"	2nd	"	"		62 40	2 88	1,184 64
Lespérance, J. A.	"	2nd	"	"		62 58	2 88	1,122 00
Millier, E.	"	3rd	"	"	19 92		2 88	977 16
Pameton, G. E.	"	3rd	"	"	19 92		2 88	977 16
Costigan, J. J.	"	3rd	"	"	19 92		2 88	977 16
Bélan, A. P.	"	3rd	"	"	19 92		2 88	977 16
Daveluy, J. P.	"	3rd	"	"		49 92	2 88	947 16
Maranda, N. A.	"	3rd	"	"		49 92	2 88	947 16
Marin, L. H.	"	3rd	"	"		49 92	2 88	947 16
Crevier, J. H.	"	3rd	"	"		49 92	2 88	947 16
Thurber, G.	"	3rd	"	"		49 92	2 88	947 16
Graveline, D. P.	"	3rd	"	"		49 92	2 88	947 16
Gervais, J. A.	"	3rd	"	"		49 92 *33 12	2 88	914 04
Robillard, G. A.	"	3rd	"	"		49 92	2 88	947 16
Mantha, J. A.	"	3rd	"	"		34 92	2 88	662 16
Boucher, A.	"	3rd	"	"		34 92	2 88	662 16
Joubert, P. E. C.	"	3rd	"	"		37 44	2 88	709 62
Prévost, J. O.	"	3rd	"	from June 1, 1913 to March 31, 1914		26 64	2 40	501 28
Prévost, Jos.	"	3rd	"	" July 1, 1913 " "		23 73	1 68	449 58
Roux, G.	"	3rd	"	" Sept. 15, 1913 " "		16 55	1 44	313 24
Beaulieu, Rosaire	"	3rd	"	" June 1, 1913 " "		26 64	1 20	505 48
Bellivean, L. C.	"	3rd	"	App. Prob. from Jan. 1 to March. 31, 1914		7 50	72	141 78
Bosquet, A.	"	Stenographer and Typewriter				25 59		486 84
O'Donnell, M. J.	"	Messenger				39 96	2 88	757 08
		Salaries			547 63	1,993 09	174 72	55,855 80
		Contingencies						12,776 92
								68,632 72

Quebec.

Arcand, D.	Salary as Collector for the year					129 96	7 20	2,462 76
Simmons, R.	"	Deputy Collector Class "A" for the year				80 85	5 40	1,532 46
Murray, D.	"	Special Class Exciseman from April 1st to Sept. 30th, 1913. Transferred to Prescott Oct. 1st, 1913.			15 96		2 16	781 86
Bergeron, E. L.	"	1st Class Exciseman from April 1st to Dec. 31st, 1913, and Accountant from Jan. 1st to March 31st, 1914.				57 45	3 24	1,089 24
LaRue, A.	"	Deputy Collector Class "B" for the year			49 43		3 60	1,359 43
Bourget, O.	"	" " "			25 92		3 60	1,270 44
Lemoine, J.	"	" " from July 1st, 1913, and 1st Class Exciseman for the three first months			22 94		2 88	1,124 17
Rouleau, C. E.	"	Deputy Collector Class "B" from July 1st, 1913, and 1st Class Exciseman for the three first months				57 20	2 88	1,084 93
Coleman, J. J.	"	1st Class Exciseman for the year			30 00		2 88	1,467 12
Martineau, O. E. J.	"	2nd	"	"		59 34 *36 21	2 88	1,089 00
Poitras, W.	"	2nd	"	"		59 31	2 88	1,125 24
Beaulieu, J. B.	"	3rd	"	"	34 92		2 88	962 16

*Insurance.

APPENDIX B.—No 1.—Details of Excise Expenditures for the year ended March 31, 1914.—*Continued.*

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee.		
	Quebec—Con.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Filten, J. R	Salary as 3rd Class Exciseman for the year		47 46	2 88	899 64	
Mercier, C. A	" Unclassified "		49 92	2 88	947 16	
	Salaries	179 17	577 76	48 24	17,195 61	
	Contingencies				12,239 05	
						29,434 66
	St. Hyacinthe.					
Benoit, L. V	Salary as Collector for the year		99 96 *58 56	7 20	1,831 20	
Langelier, F	" Deputy Collector Class "A" for the year		74 79	3 60	1,417 86	
MacDonald, A. B	" Special Class Exciseman for the year	37 92		4 32	1,857 72	
Archambault, F. X	" Deputy Collector Class "B" for the year		38 28	2 88	725 48	
Francœur, A	" " "		45 00	2 88	852 12	
Gilbert, A	" " "		39 96	2 88	757 08	
Bernard, N. J. D	" 1st Class Exciseman from April 1st to Oct. 31st. Died Oct. 6th, 1913.		43 75 79 94	1 68	749 63	
Dumaine, J. D	" " for the year.		72 12 *51 48	2 88	1,314 27	
Rouleau, J. C	" " "		72 12 *82 08	2 88	1,286 67	
Gauvin, E	" " "		66 48	2 88	1,260 60	
	Salaries	37 92	827 52	34 98	12,055 63	
	Contingencies				3,448 60	
						15,504 23
	Sherbrooke.					
Simpson, A. F	Salary as Collector for the year	43 92		7 20	2,148 81	
Chartier, E	" Deputy Collector Class "A" for the year		79 92	3 60	1,516 44	
Quinn, J. D	" Special Class Exciseman for the year	31 92		4 32	1,563 72	
Rousseau, E. H	" Deputy Collector Class "B" for the year	52 47	3 60	993 88		

De Grosbois, C.E.	"	2nd Class Exciseman for the year		59 34	2 88	1,125 24	
Bowen, S. C.	"	3rd " "		49 92	2 88	947 16	
		Salaries	75 84	241 65	24 48	8,295 28	
		Contingencies				910 45	
							9,205 73
		Three Rivers.					
Hébert, C. D	Salary as Collector for the year			31 92		3 60	1,564 44
Duplessis, C. Z.	"	Deputy Collector Class "B" for the year		19 92		3 60	976 44
Dontigny, H.	"	" "			7 44	1 80	140 76
Auger, L. H.	"	3rd Class Exciseman for the year			49 92	2 88	947 16
		Salaries		51 84	57 36	11 88	3,628 80
		Contingencies					1,419 37
							5,048 17
		St. John, N.B.					
Belyea, T. H.	Salary as Collector for the year			39 96		7 20	1,952 76
Clark, J. A.	"	Deputy Collector Class "A" from April 1, to 30, 1913, Superannuated		2 50			122 50
Law, A. L.	"	" " " May 19, 1913, to March 31, 1914			52 09	3 12	986 72
Geldart, O. A	"	Special Class Exciseman for the year		31 92		4 32	1,563 72
Dwyer, D. T.	"	Deputy Collector Class "B" for the year			9 96	3 60	186 36
Fitzpatrick, W. J.	"	1st Class Exciseman for the year		30 00		2 88	1,467 12
Ferguson, J. C.	"	" " "		30 00		2 88	1,467 12
McGowan, J.	"	" " "			68 13	2 88	1,292 70
Casey, F. J.	"	2nd " "			59 34	2 88	1,125 24
Farmer, R. C.	"	" " "			59 34	2 88	1,125 24
Ward, C.	"	Stenographer and Typewriter from June 1, 1913, to March 31, 1914			19 12		364 19
		Salaries	134 38	267 98	32 61	11,653 67	
		Contingencies				834 96	
							12,188 63
		Halifax.					
Grant, H. H.	Salary as Collector for the year			45 96		7 20	2,246 76
King, R. M.	"	Deputy Collector Class "A" for the year		33 96		3 60	1,662 36
James, F. C.	"	Accountant for the year		30 00		4 32	1,465 68
Tompkins, P.	"	3rd Class Exciseman from April 1, 1913, promoted Deputy Collector Class "B", January 1, to March 31, 1914		20 94		3 06	1,025 97
Waddell, S. J.	"	Deputy Collector Class "B" for the year			22 44	3 60	423 96
Carroll, D.	"	1st Class Exciseman for the year				2 88	1,497 12
Blethen, C. W	"	" " from April 1, to July 31, 1913, and from February 4th, to March 31, 1914. Tranferred to Pictou between these two periods.		15 60		1 44	733 56
Hubley, H. H	"	1st Class Exciseman for the year		30 00		2 88	1,467 12
Gorman, A. M.	"	" " "		30 00		2 88	1,467 12
Munro, H. D.	"	3rd " "		19 92		2 88	977 16
		Salaries	225 78	22 44	34 74	12,966 81	
		Contingencies				279 11	
							13,245 95

* Insurance.

APPENDIX B—No. 1.—Details of Excise Expenditures for the year ended March 31, 1914 *Continued.*

To whom paid.	Service.	Deductions for.			Amounts paid.	Total amount paid.
		Superannuation.	Retirement.	Guarantee.		
	Pictou.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Fraser, P.	Salary as Collector for the year	27 96		3 60	1,368 36	
Macdonald, A. J.	" Deputy Collector Class "B", services dispensed with Aug. 1, 1913		15 00	96	284 04	
McKeen, E. T.	" " " from Jan. 16., to Mar. 31, 1914		9 43	60	178 67	
Blethen, C. W.	" 1st Class Exciseman from Aug. 1, 1913, to Jan. 31, 1914	15 00		1 44	733 56	
Carroll, F. P.	" 3rd " for the year		49 92	2 88	947 16	
	Salaries	42 96	74 35	9 48	3,511 79	
	Contingencies				864 95	4,376 74
	Charlottetown.					
Moore, T.	Salary as Collector from April 1, to Sept 30, 1913. Died Sept 1, 1913			1 80	723 18	
Weeks, W. A.	" Deputy Collector Class "A" for the year		51 51	2 88	976 86	
Doyle, S. F.	" 3rd Class Exciseman for the year		34 92	2 88	662 16	
	Salaries		86 43	7 56	2,362 20	
	Contingencies				106 11	
						2,468 31
	Winnipeg.					
Gosnell, T. S.	Salary as Collector for the year			7 20	2,792 76	
Code, A.	" Deputy Collector Class "A" for the year	39 96		3 60	1,956 36	
McArthur, G. H.	" Special Class Exciseman for the year		84 96	1 32	1,610 64	
Verner, T. H.	" " "	52 44	*77 52	3 60	1,366 44	
Long, W. H. A.	" Accountant for the year		86 04	1 32	1,630 89	
Sparling, J. W.	" Deputy Collector Class "B" for the year		54 96	2 88	1,042 08	
Earl, R. W.	" " "		70 89	2 88	1,344 90	
McNiven, J. D.	" " "		19 92	2 88	377 16	
Barrett, J. P.	" " "		45 62	3 60	863 28	
Larivière, A. C.	" 1st Class Exciseman for the year	52 44		2 88	1,444 68	
Forsythe, D.	" " "		59 61	2 88	1,131 18	
Hammond, T. W.	" 2nd " "		59 34	2 88	1,125 24	
Currie, W. W.	" " "		50 58	2 88	959 04	
Greig, W. G.	" " "		50 58	2 88	959 04	
Morris, T. H.	" 3rd " "		49 92	2 88	947 16	

Nichol, F. A.	"	"	"		16 23	2 88	875 88	
Ivey, W. J	"	"	"		43 74	2 88	828 36	
Fegan, P. J	"	"	"		36 18	2 88	685 89	
Rainey, G. Y	"	"	"	from June 1, 1913 to March 31, 1914	23 73	2 76	449 10	
		Salaries			144 84	859 82	63 36	22,390 08	
		Contingencies						2,991 64	
									25,381 72
				Calgary.					
Fletcher, R. W	Salary as Collector for the year					88 74	3 60	1,682 64	
Richardson, W	"	Deputy Collector Class "B" for the year				63 19	2 88	1,197 33	
Wood, C. T	"	"	"			60 00	3 60	1,136 40	
Walker, J. H	"	"	"	Services dispensed with Jan. 1, 1914		11 25	2 16	211 59	
Markley, A. W. R	"	"	"	for the year		49 09	3 54	930 66	
Bernard, A. H	"	"	"	from Jan. 1 to March 31, 1914		3 75	72	70 53	
Bruce, G. B	"	3rd Class Exciseman for the year				49 92	3 84	946 20	
Fidler, H	"	"	"			43 74	2 88	828 36	
		Salaries				369 68	23 22	7,003 71	
		Contingencies						8,059 79	
									15,063 50
				Moose Jaw.					
Conklin, W. M	Salary as Collector for the year					90 00	3 60	1,706 40	
Goudie, D. A	"	Deputy Collector Class "B" for the year				45 00	3 60	851 40	
MacGregor, D. N	"	"	"			49 92	3 60	946 41	
Ross, H. E	"	"		Superannuated Nov. 1, 1913	6 93		1 68	224 70	
Jameson, S. B	"	"		for the year	11 88		2 88	385 20	
Campbell, F. N	"	"		from Nov. 7, 1913 to March 31, 1914		15 98	1 16	302 83	
		Salary			18 81	200 90	16 52	4,416 97	
		Contingencies						2,625 16	
									7,042 13
				Vancouver.					
Parkinson, E. B	Salary as Collector for the year					111 96	7 20	2,177 76	
Power, J. J	"	Deputy Collector Class "A" from April 1 to Nov. 19, 1913				55 10	2 73	1,050 28	
Allen, G. A	"	Special Class Exciseman for the year			43 92		4 32	2,151 72	
Thorburn, Jas	"	Accountant from April 1, promoted Dep. Coll. Class "A" Jan. 1 to March 31, 1914				74 31 *56 16	4 59	1,352 37	
Deely, F	"	1st Class Exciseman from April 1 promoted Accountant Jan. 1, 1914				68 13	3 24	1,292 34	
Scanlan, T. J	"	Deputy Collector Class "B" for the year				64 92	3 60	1,231 44	
Wolfenden, Wm	"	"	"			54 96	3 60	1,041 36	
McCutcheon, H	"	"	"			34 92	3 60	660 44	
Howell, T	"	"	"			27 48	3 60	518 88	
Gray, R. S	"	"	"			49 92	2 88	947 16	
Keay, W. S	"	"	"			60 00	3 60	1,136 40	
Hambly, S. E	"	"	"			12 48	3 60	233 88	
Grigor, W	"	"	"			49 92	3 60	946 41	

* Insurance.

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee.	Amounts paid.	Total amount paid.
	Vancouver—Con.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Gilpin, R. R	Salary as Deputy Collector Class "B" for the year		2 48	1 80	235 68	
Campbell, A. E	" " " "		9 96	3 60	186 36	
Jephson, W. J	" " " "		39 96	2 88	757 08	
Grace, A. B	" " from July 25, 1913 to March 31, 1914		23 00	2 76	434 21	
Simpson, G	" 1st Class Exciseman for the year		55 89 *51 36	2 88	1,008 54	
Chilver, F. W	" " " "		75 00 *18 72	2 88	1,403 40	
Morgan, E. J	" 2nd " "		51 54 *42 02	2 88	935 98	
Macdonald, G	" " " "		50 58 *44 64	2 88	914 40	
Sutherland, W	" " " "		50 58	2 88	959 01	
	Salaries	43 92	1,249 32	75 60	21,576 09	
	Contingencies				5,605 67	
						27,181 76
	Victoria.					
Jones, R	Salary as Collector for the year	39 96		7 20	1,952 76	
O'Sullivan, D	" Deputy Collector Class "A" for the year	52 44		3 60	1,443 96	
Shaw, J	" " "B" "		32 40	3 60	613 92	
Ridgman, A. H	" 1st Class Exciseman for the year	52 44		2 88	1,444 68	
Huggett, A. P	" " " "		59 34	2 88	1,125 24	
Clements, R. S	" 3rd " "		36 18	2 88	685 89	
	Salaries	144 84	127 92	23 04	7,266 45	
	Contingencies				1,752 68	
						9,019 13
	Yukon Territory.					
McDonald, J. F	Salary as Collector from April 1 to Dec. 31, 1913		37 48	5 40	711 87	
	Salaries		37 48	5 40	711 87	
						711 87

* Insurance.

APPENDIX B.—No 1.—Details of Excise Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee	Amounts paid.	Total amounts paid.
	DISTRICT INSPECTORS.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
	Ontario.					
Gow, Jno. E.	Salary for the year	48 96		9 00	2,392 02	
	Contingencies				1,235 23	
						3,627 25
Evans, Geo. F.	Salary for the year	39 96		9 00	1,950 96	
	Contingencies				319 16	
						2,270 12
Alexander, Thos.	Salary for the year			9 00	2,790 96	
	Contingencies				536 08	
						3,327 04
	Quebec.					
Toupin, J. A	Salary (superannuated July, 1913) from April 1 to July 1, 1913	14 49			710 49	
Caven, W.	Salary from July 1, 1913, to March 31, 1914	36 00		6 75	1,757 25	
	Salaries	50 49		6 75	2,467 74	
	Contingencies				183 80	
						2,651 54
Dumontier, J. A.	Salary for the year		129 96	9 00	2,460 96	
	Contingencies				401 93	
						2,862 89
	New Brunswick.					
Burke, T.	Salary from April 1 to 30, Superannuated May 1, 1913.	4 83			236 83	
McDonald, J. (jr.).	Salary from May 1, 1913, to March 31, 1914		91 63	8 25	1,733 38	
	Salaries	4 83	91 63	8 25	1,970 21	
	Contingencies				560 07	
						2,530 28
	Manitoba.					
Barrett, J. K.	Salary for the year			9 00	2,890 92	
	Contingencies				920 02	
						3,810 94
	Alberta.					
Saucier, F. X.	Salary for the year	49 44		9 00	2,416 53	
	Contingencies				1,488 40	
						3,904 93
	British Columbia.					
Miller, J. E.	Salary for the year	57 96		9 00	2,832 96	
	Contingencies				1,616 30	
						4,449 26
	Inspector of Tobacco Factories.					
Lawlor, H.	Salary for the year	63 96			3,135 96	
	Contingencies				910 40	
						4,046 36
	Inspector of Distilleries.					
Brain, A. F.	Salary for the year	86 61			2,388 36	
	Contingencies				1,084 10	
						3,472 46
	Inspector of Bonded Factories.					
Low, Jno. E.	Contingencies				156 78	
						156 78
	Inspector of Malt Houses and Breweries.					
Barrett, J. K.	Salary for the year				300 00	
	Contingencies				1,596 55	
						1,896 55

APPENDIX B—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	General Excise Contingencies.	$ cts.	$ cts.
American Bank Note Co.	To Pay for stamps and labels supplied	120,000 00	
British American Bank Note Co.	" Pay for bottling labels supplied	9,245 50	
Thorton & Truman	" Pyrometers, iron locks and general repairs	714 00	
McKinley & Northwood	" 24 tobacco ovens &c.	408 40	
Scales, Mrs. C	" Cleaning storerooms, &c., for the year	313 00	
Pritchard & Andrews Co. Ltd., The	" Pads, rollers, daters, stamps and repairs	254 87	
Oertling, L	" Repairing hydrometers, locks, &c	215 40	
Guerney Scales Co	" 24 percentage scales	168 00	
Gallenkamp, A. & Co	" 3 doz. burettes and 3 doz. pipettes	103 40	
Collecter of Customs	" Duty on imported goods	65 60	
Canadian Consolidated Rubber Co	" Rubber tubing, couplings, &c	54 31	
Gerald, W. H	" Travelling expenses	69 60	
Gooderham & Worts	" Alcohol, 16·89 gals., &c	25 57	
Lymans, Ltd	" Glass funnel bottles	22 85	
Renaud, G	" Services for destroying plates, 2 days	5 00	
Borne, J. B	" " " " "	5 00	
Registrar of Exchequer Court	" 2 Writs of assistance	5 80	
Dominion Express	" Express charges	5 50	
Birkett, Thos. & Sons Co., Ltd	" 6 gross of screws	96	
Himsworth, W	" Petty cash charges	148 15	
	Total		131,828 91
	Law Costs.		
Grenier, A. W	Law costs, Rex vs G. L. J. Tremblay	25 00	
Langlois, Jules	" " Paul Sirois	27 75	
Fraser, Macdonald & Rugg	" " J. Peloquin	10 00	
Leblanc, Brossard, Forest & Nantel	" " Geo. Brais	20 00	
Bolduc, Remi	" " A. Morin $94 15		
"	" " " 62 25		
		156 40	
Baird, W. J	" " J. Gampoulos 15 00		
"	" " Yama Mota 15 00		
"	" " Peter Orlich 20 00		
"	" " Nick Kokinas 10 00		
		60 00	
	Total for law costs		299 15

APPENDIX B—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Provisional Allowance paid during the year.	$ cts.	$ cts.
Gosnell, T. S., Winnipeg.	To pay Forsyth, D	124 92	
	" Hammond, T. W	124 92	
	" Sparling, J. W	124 92	
	" Verner, T. H	99 96	
	" Earl, R. W	124 92	
	" Morris, T. H	124 92	
	" Nichol, F. A	143 73	
	" Currie, W. W	143 73	
	" Ivey, W. J	150 00	
	" Greig, W. G	143 73	
	" Barrett, J. P	147 91	
	" Fegan, P. J	150 00	
	" Davis, T. J	150 00	
	" Ashton, H	150 00	
	" Bellanger, A	150 00	
	" Ramey, G. G	129 16	
	" Johnson, J. D	150 00	
	" Code, A	99 96	
	" McArthur, G. H	99 96	
	" Lariviére, A. C	99 96	
	" Long, W. H. A	99 96	
	" McNiven, J. D	49 92	
			2,782 58
Fletcher, R. W., Calgary.	" Foucar, H	50 00	
	" Gray, W. B	50 00	
	" Saucier, X	100 00	
	" Libbey, J. J	25 00	
	" Schofield, Jas. H	54 13	
	" McKenty, John	50 00	
	" Fletcher, R. W	100 00	
	" Dalgetty, Jas	150 00	
	" Davis, W. E	150 00	
	" Markley, A. W. R	122 92	
	" Bruce, Geo. B	122 95	
	" Sobey, R. E	50 00	
	" Walker, J. H	56 25	
	" Wood, C. T	125 00	
	" Fidler, H	150 00	
	" Richardson, W	125 00	
	" Jourghin, W. C	130 24	
	" Jamieson, John F	62 50	
	" Greenwood, Jas. E. B	137 50	
	" Miller, Lawrence	35 08	
	" Pierce, A. H	123 33	
	" McKibbon, Walter Scott	100 00	
	" Richards, D. H	60 83	
	" Barnard, A. H	18 75	
			2,149 48
Conklin, W. M., MooseJaw.	" Edmondson, R. W	20 80	
	" McGowan, W. J. H	50 00	
	" Panton, A. M	75 00	
	" Jameson, S. B	116 66	
	" Conklin, W. M	100 00	
	" MacGregor, D. N	125 00	
	" Ross, H. E	72 87	
	" Goudie, D. A	150 00	
	" Bell, W. H	129 52	
	" Lowe, W. C	6 25	
	" Hayes, Fred. C	29 20	
	" Campbell, T. N	60 04	
			935 34

APPENDIX B.—No 1.—Details of Excise Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Provisional Allowance paid during the year.	$ cts.	$ cts.
Parkinson, E. B., Vancouver.	To Pay MacDonald, G	143 73	
	" Morgan, E. J	124 92	
	" Simpson, G	124 92	
	" Sutherland, W	143 73	
	" Gibson, J. V	150 00	
	" Carmichael, D	137 46	
	" Jephson, J	150 00	
	" Chilver, F. W	99 96	
	" Gray, R. S	124 92	
	" Keay, W. S	124 92	
	" Scanlan, T. J	124 92	
	" Wolfenden, Wm	124 92	
	" Deeley, Fred	124 92	
	" Thorburn, Jas	118 68	
	" Parkinson, E. B	99 96	
	" Power, J. F	63 24	
	" Allen, G. A	99 96	
	" Atkins, B. R	75 00	
	" Howell, Thos	75 00	
	" Grigor, R. W	75 00	
	" Leishman, A	50 04	
	" Delahay, Wm	50 04	
	" Armstrong, F	50 04	
	" Quinn, Thos	61 09	
	" McSpadden, Melrose	41 19	
			2,558 56
Jones, R., Victoria.	" Clements, R. S	150 00	
	" Robinson, W	150 00	
	" Johnson, Geo	150 00	
	" Ridgman, A. H	100 00	
	" Huggett, A. P	125 00	
	" Shaw, John	125 00	
	" O'Sullivan, D	100 00	
	" Jones, R	100 00	
			1,000 00
	Amount overpaid to be accounted for next year (Vancouver)	14 00	14 00
	Totals		9,439 96

APPENDIX B.—No 1.—Details of Excise Expenditures for the Year ended March 31, 1914—*Continued*

To whom paid.	Place of Residence.	Service.	Amounts paid.	Total amounts paid
		Commissions to Customs Officers.	$ cts.	$ cts.
White, H.	Cranbrook, B.C.	From April 1, 1912 to March 31, 1913	346 40	
Nuruh, T.	Rosthern, Sask.	" April 1 to May 10th, 1913	43 88	
Munro, H. P.	Faber, Alta.	" April 1, 1912 to March 31, 1914	392 80	
Brimacombe, N. A.	Vermilion, Alta.	" " "	111 17	
Andrew, B. G.	Cranbrook, B.C.	" April 1 to June 24, 1913	136 00	
Marsh, R. J. F.	Fort Frances, Ont.	" April 1 to Oct. 31, 1913	113 43	
Pierce, H. A. P.	" "	" Nov 1, 1913 to March 31, 1914	148 29	
Porter, N.	Simcoe, Ont	" April 1, 1913 to March 31, 1914	346 40	
Thomson, J. M.	Napanee, Ont.	" " "	8 43	
Glass, J. J.	Lindsay, Ont.	" " "	115 20	
Kavanag, A. J.	Gaspé, Que.	" " "	83 89	
Ratchford, C. E.	Amherst, N. S.	" " "	32 49	
Porter, A. R.	Melville, Sask	" " "	346 40	
Hodson, F. H.	Rosthern, Sask.	" May 11, 1913 "	246 80	
Fowlie, E. A.	Gull Lake, Sask.	" Sept. 23, 1913 "	49 08	
Halliwell, H. T.	Estevan, Sask.	" April 13, 1913 "	247 24	
Polley, W. H.	Trenton, Ont	" April 1, 1913 "	346 10	
Sanborn, J. B.	Vermilion, Alta.	" " "	87 23	
Bell, J. A.	Dauphin, Man.	" " "	346 40	
McMillan, D. H.	Morden, Man.	" " "	246 40	
Gilhuly, R. H.	Selkirk, Man.	" " "	146 40	
Jackson, H. B.	Rainy River, Ont.	" " "	346 40	
Gilhuly, R. H.	Selkirk, Man.	Guarantee from Apr. 1, '13 to Mar. 31, 14	3 60	
McMillan, D. W.	Morden, Man.	" " "	3 60	
Munro, H. P.	Taber, Alta	" " "	3 60	
Ball, J. A.	Dauphin, Man.	" " "	3 60	
Porter, A. R.	Melville, Sask	" " "	3 60	
Sanborn, J. B.	Vermilion, Alta.	" " "	3 60	
Boyd, A.	Antigonish, N.S.	" " "	3 60	
Clark, A. J.	Campobello, N.B.	" " "	3 60	
Kirk, J. T.	Sussex, N.B.	" " "	3 60	
McDonald, J. F.	New Glasgow, N.S.	" " "	3 60	
McPherson, J.	North Sydney, N.S.	" " "	3 60	
Park, W. A.	New Castle, N.B.	" " "	3 60	
Ratchford, C. E.	Amherst, N.S.	" " "	3 60	
Watt, G.	Chatham, N.B.	" " "	3 60	
Thomson, J. M.	Napanee, Ont.	" " "	3 60	
Britton, W. H.	Gananoque, Ont.	" " "	3 60	
Ross, W. T.	Picton, Ont.	" " "	3 60	
Vallean, A. S.	Deseronto, Ont.	" " "	3 60	
Polley, W. H.	Trenton, Ont.	" " "	3 60	
Brown, G.	Meaford, Ont.	" " "	3 60	
Daly, J. A.	Cambellford, Ont.	" " "	3 60	
Jackson, H. B.	Rainy River, Ont.	" " "	3 60	
Macpherson, M. J.	Kincardine, Ont.	" " "	3 60	
Porter, N.	Simcoe, Ont	" " "	3 60	
Tyson, A. M.	Wiarton, Ont.	" " "	3 60	
Glass, J. J.	Lindsay, Ont.	" " "	3 60	
Blair, A.	Chicoutimi, Que.	" " "	3 60	
Kavanagh, A. J.	Gaspé, Que.	" " "	3 60	
Martel, L.	Thedford Mines, Que.	" " "	3 60	
Halliwell, T.	Estevan, Sask.	" Apr. 17, '13 "	2 76	
Hodson, F. H.	Rosthern, Sask.	" May 11, '13 "	3 20	
Ironside, E. S.	Dawson, Y.T.	" July 1, '13 "	2 70	
Fowlie, E. A.	Gull Lake, Sask.	" Sept. 23, '13 "	1 88	
Bannerman, J. S.	Cumberland, B.C.	" Nov. 1, '13 "	1 50	
Nuruh, T.	Estevan, Sask.	" Apr. 1, '13 to May 6, '13	36	
Grace, A. B.	Canbrook, N.B.	" Apr. 1, '13 to June 25, '13	85	

APPENDIX B— No. 1.—Details of Excise Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Place of Residence.	Services.	Amounts paid.	Total amounts paid.
		Commissions to Customs Officers.	$ cts.	$ cts.
Marsh, R. J. F.....	Fort Frances, Ont ..	Guarantee from Apr. 1, '13 to Oct. 22, '13	2 02	
Pierce, H. A. P.....	" " ..	" Oct. 22, '13 to Mar. 31, '13	1 58	
		Total amount of Commission..	..... .	4,408 38

APPENDIX B—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Duty-pay.	$ cts.	$ cts.
Bouteiller, G. A.	From April 1, 1913, to March 31, 1914	300 00	
Lane, T. M.	" "	200 00	
Lyons, E.	" "	113 03	
Bayard, G. A.	" "	150 00	
Thomas, R.	" "	150 00	
Cummnford, F.	" "	150 00	
Falconer, J. E.	" "	150 00	
Cahill, J. W.	" "	150 00	
Bergeron, R. J.	" "	150 00	
Keog, P. M.	" "	150 00	
Gerald, C.	" "	300 00	
Jamieson, R. C.	" "	300 00	
Hurst, L. B.	" "	200 00	
Doyle, B. J.	" "	150 00	
O'Leary, T. J.	" "	150 00	
Jones, A.	" "	150 00	
Abbott, H. F.	" "	150 00	
Shorey, A. B.	" "	150 00	
Eakins, G. G.	" "	150 00	
Walsh, W. H.	" "	150 00	
Young, J. J.	" "	150 00	
Helliwell, H. N.	" "	150 00	
Martin, N.	" "	200 00	
Howie, A.	" "	150 00	
Thomas, F. W.	" "	150 00	
Egener, A.	" "	150 00	
Feik, L.	" "	145 83	
Baby, W. A. D.	" "	250 00	
O'Brien, J. F.	" "	200 00	
Elliott, W. J.	" "	150 00	
Boyd, J. F.	" "	150 00	
McFee, A. C.	" "	150 00	
Sprague, F. W.	" "	150 00	
Lally, J. E.	" "	150 00	
Gerald, W. H.	" "	300 00	
McPherson, E. A.	" "	200 00	
Bissell, C. H.	" "	1 0 00	
Byrne, W. P.	" "	150 00	
Granton, C.	" "	150 00	
McNally, C.	" "	108 87	
Snowden, J. W.	" "	300 00	
Normandin, G.	" "	227 68	
Olivier, H.	" "	150 00	
Denis, J. L.	" "	150 00	
Gariépy, L. N.	" "	150 00	
Murray, D.	" "	300 00	
Walsh, D. J.	" "	300 00	
Milot, J. F.	" "	175 00	
Davidson, Jas.	" "	150 00	
Macdonald, A. B.	" "	250 00	
Mason, F.	" "	200 00	
Adam, A. R.	" "	150 00	
Allen, G. A.	" "	300 00	
Chilver, F. W.	" "	200 00	
Sutherland, W.	" "	150 00	
Gray, R. S.	" "	150 00	
Desaulniers, J. E. A.	" "	200 00	
Amor, W.	" "	200 00	
Graham, A. L.	" "	200 00	
Coleman, J. J.	" "	300 00	
Berry, H. L.	" "	200 00	
Morforton, E.	" "	100 00	
Johnson, J. J.	" "	100 00	
Bousquet, J. O.	" "	100 00	

APPENDIX B—No. 1. Details of Excise Expenditures for the Year ended March 31 1914 - *Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Duty-pay.—Concluded.	$ cts.	$ cts.
Corriveau, O.	From April 1, 1913 to March 31, 1914.	100 00	
Poitras, W.	" "	100 00	
Quinn, J. D.	" "	150 00	
Morris, T. H.	" "	100 00	
Davis, T. J.	" "	100 00	
Fairley, W.	" "	100 00	
Niven, T. D.	From April 1 to Aug. 10 and from Nov. 3, 1913 to March 31, 1914.	115 70	
Brennan, J.	From May 12, 1913 to March 31, 1914.	133 06	
Moynahan, J.	" April 1 to June 30, 1913	25 00	
O'Neil, G.	" July 14, 1913 to March 31, 1914.	71 50	
Dawson, W.	" April 1 to Sept. 30, 1913.	150 00	
Standish, J. G.	" April 1, 1913 to Jan. 31, 1914.	250 00	
Brown, W. J.	" Apr. 1 to Aug. 10 and Aug. 25, 1913 to Mar. 31, 1914.	209 14	
Wilson, H. R.	" April 1 to June 15, June 28 to Aug. 10 and Aug. 25, 1913 to March 31, 1914.	139 36	
Tellier, J. O.	" April 1 to Oct. 20 and Nov. 5, 1913 to Mar. 31, 1914.	143 89	
Olivier, J. A.	" April 1 to Oct. 10, 1913 and Jan. 11 to Mar. 31, 1914.	163 85	
Bouchard, Jos.	" April 1, 1913 to Jan. 10, 1914	116 53	
Côté, R.	" " "	116 53	
Thérien, E. C.	" July 11 to Sept. 30, 1913.	17 32	
Bernard, N. J. D.	" April 1 to Sept 30, 1913	100 00	
Chaput, N. J.	" April 1 to May 31 and July 1, 1913 to Mar. 31, 1914.	137 50	
Millier, E.	" April 1 to July 14 and Aug. 5, 1913 ta Mar. 31, 1914.	141 54	
Graveline, D. P.	" July 15 to Aug. 4, 1913.	8 46	
Gauthier, W.	" July 7 to July 27, 1913.	5 65	
Barrette, J. E.	" Oct. 6, 1913 to Jan. 10, 1914.	26 35	
Gauvin, L. E.	" Oct. 21, 1913 to March 31, 1914.	66 91	
MacMartin, A.	" Oct. 1, 1913 to March 31, 1914.	50 00	
Dalgetty, J.	" " "	50 00	
Uffelman, A.	" " "	50 00	
Marin, L. H.	" April 1 to July 6 and July 28, 1913 to Mar. 31, 1914.	94 35	
	Total		14,603 08

APPENDIX B—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1914—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
		$ cts.	$ cts.
Laframboise, L.	Special technical translation		44 04
	Total		721,535 39
	ADD—Printing	7,940 94	
	Stationery	2,535 90	
			10,476 84
	Grand total		732,012 23
	ADD—Balances due by Inspectors, 1914	343 98	
	" to " 1913	49 08	
			393 06
			732,405 29
	LESS Balances due by Inspectors 1913	343 98	
	" to " 1914	1,105 77	
			1,449 75
	Actual disbursement less superannuation, insurance, retirement, guarantee and annuities agreeing with Statement No. 4, page 12		730,955 54

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B -No. 2.—Distribution of Seizures for the year ended March 31, 1914.

Divisions.	To whom paid.	Service.					Amounts paid.	Total amounts paid.
							$ cts.	$ cts.
Toronto	Frankland, H. R.	To pay informer ½ penalty in seizure No.				428	25 00	
		For his share of seizure				458	8 33	
								33 33
	Flody, E.	"	"			458		8 33
	Halley, W. H	"	"			458		8 34
Montreal	Bernier, J. A.	To pay informer ½ penalty in seizure				1,245	25 00	
		"	"	"		1,246	25 00	
		"	"	"		1,247	12 50	
		"	"	"		1,248	25 00	
		"	"	"		1,249	12 50	
		"	"	"		1,252	12 50	
		"	"	"		1,253	50 00	
								162 50
	Brabant, G. N.	For his share of seizure				1,226	13 37	
		"	"			1,242	12 50	
		"	"			1,244	51 00	
		"	"			1,245	29 75	
		"	"			1,246	26 85	
		"	"			1,248	12 90	
		"	"			1,249	6 85	
		"	"			1,252	5 75	
								158 97
	Lesperance, J. A.	"	"			1,247	6 25	
		"	"			1,248	12 90	
		"	"			1,249	6 85	
								26 00
	Caven, W	"	"			1,242		12 50
	Warren, G	"	"			1,247		6 25
	Bernier, J. A.	"	"			1,226		13 37
	Costigan, J. J	"	"			1,226		13 36
	Comte, J.	"	"			1,252		5 75
Quebec	Arcand, D.	To pay informer ½ penalty in seizure				630	50 00	
		"	"	"		635	25 00	
		"	"	"		636	12 50	
		"	"	"		637	12 50	
		"	"	"		638	6 25	
		"	"	"		640	12 50	
		"	"	"		641	25 00	
		"	"	"		642	50 00	
		"	"	"		644	12 50	
								206 25
	Poitras, W.	For his share of seizure				628	31	
		"	"			630	21 53	
		"	"			631	2 79	
		"	"			635	10	
		"	"			640	15	
		"	"			641	6 39	
								31 26
	Bourget, O.	"	"			628	31	
		"	"			630	21 52	
		"	"			631	2 78	
		"	"			635	10	
		"	"			637	3 55	
		"	"			638	3 65	
		"	"			640	14	
		"	"			641	6 39	
		"	"			642	54 10	
								92 53
Sherbrooke	Simpson, A. F.	To pay informer ½ penalty in seizure G.				5,398	25 00	
		For his share in seizure G.				5,398	25 00	
								50 00
St John	Belyea, T. H.	To pay informer ½ penalty in seizure				196	50 00	
		"	"	"		197	25 00	
		"	"	"		198	25 00	

APPENDIX B—No. 2.—Distribution of Seizures for the Year ended March 31st, 1914—*Continued.*

Divisions.	To whom paid.	Service.		Amounts paid.	Total amounts paid.
				$ cts	$ cts.
St. John—*Con.*	Beleyea, T. H.	To pay informer ½ penalty in seizure No.	199	25 00	
		" " " "	200	25 00	
		" " " "	201	25 00	
		" " " "	202	7 50	
					182 50
	Kelly, J. T.	For his share in seizure	" 196	46 50	
		" "	" 197	19 15	
		" "	" 198	21 00	
		" "	" 199	20 00	
		" "	" 200	21 25	
		" "	" 201	22 70	
		" "	" 202	5 25	
					155 85
Moose Jaw	Conklin, W. M.	" "	" 2	50 00	
		To pay informer ½ penalty in seizure	" 2	50 00	
					100 00
Vancouver	Parkinson, E. B.	" " " "	65	25 00	
		" " " "	66	25 00	
		" " " "	97	25 00	
		" " " "	68	25 00	
					100 00
	Thornburn, J.	For his share in seizure.	" 65	27 00	
		" "	" 66	27 00	
		" "	" 67	26 00	
		" "	" 68	27 00	
					107 00
					1,474 09

RECAPITULATION.

Ontario	$ 50 00
Quebec	878 74
New Brunswick	338 35
Saskatchewan	100 00
Vancouver	107 00
Grand total	$ 1,474 09

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B—*Continued.*

No. 3.—DETAILS of Sundry Minor Expenditures for the Year ended March 31, 1914.

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Proprietary or Patent Medicine Act.	$ cts.	$ cts.
Rudolf, Prof. D. R.	For consultation as expert	300 00	
Blakader, Dr. A. D.	" "	300 00	
Graydon & Graydon.	Law costs, Rex *vs.* W. S. Bryan Barkwell & Canadian Druggist Syndicate, Ltd	20 00	
McDonnell & Costello	Law costs, Rex *vs.* Brock Oxtrom & Sons	10 00	
Wigle E. S.	" " Gardener Rickard Drug Co	10 00	
			640 00
	Printing	400 87	
	Stationery	47 04	
			447 91
Pembroke Standard, The	Advertising tenders, Norway Bay & Sand Point Ferry, 70 lines, 1 ins	7 00	
"	Advertising tenders, Mansfield & Lapasse Ferry, 66 lines, 2 ins.	9 90	
German Post, The	" " "	9 90	
"	" Norway Bay & Sand Point Ferry, 70 lines, 1 in	7 00	
Equity, The	Advertising tenders, Mansfield & Lapasse Ferry, 66 lines, 2 in.	9 90	
Arnprior Chronicle, The	" Norway Bay & Sand Point Ferry, 70 lines, 1 ins	7 00	
"	Advertising tenders, Mansfield & Lapasse Ferry, 66 lines, 1 ins.	6 60	
Cowan, J. A.	" Norway Bay & Sand Point Ferry, 70 lines, 1 ins	7 00	
Davidson, A. F.	Law costs, Rex vs. F. J. Russell	142 90	
			207 20
	Printing	10 19	
	Stationery	10 00	
			20 19
Laframbroise, L.	Special translation		14 90
	Export of Electric Power.		
Lambe, A. B.	Travelling expenses		93 30
	Grand total agreeing with statement No. 10, page 20		1,423 50

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

APPENDIX B—*Continued.*

No. 4.—DETAILS of Adulteration of Food Expenditures for the Year ended March 31, 1914.

To whom paid.	Service.	Deduction for Superannuation.	Guarantee.	Amounts paid.	Total Amounts paid.
	Adulteration of Food.	$ cts.	$ cts.	$ cts	$ cts.
Cameron, D. M., Hamilton, Ont.	Salary as Food Inspector from April 1 to Aug. 31, 1913.	.....	0 45	166 20	
Hogan, Jas., Kingston, Ont.....	Salary as Food Inspector for the year.	.....	1 08	198 84	
Talbot, J., London, Ont.....	" " ..	.....	1 08	198 84	
Dager, H J., Toronto, Ont. ..	" " ..	.....	1 08	198 84	
Costigan, J. J., Montreal, Q.....	" " ..	9 96	1 08	488 88	
Kearney, D. J., Montreal, Q.....	" " ..	.....	1 08	398 88	
Béland, F. X., Quebec, Q.....	" " ..	.....	1 08	298 92	
Rouleau, J. C., St. Hyacinthe, Q.	" " ..	.....	1 08	198 84	
Ferguson, J. C., St. John, N.B..	" " ..	3 96	1 08	194 88	
Waugh, R. J., Halifax, N.S....	" " ..	.....	1 08	348 84	
Weeks, W. A., Charlottetown, P.E.I...	" " ..	.....	1 08	198 84	
Larivière, A. G., Winnipeg, Man.	" " ..	.....	1 08	232 20	
Markley, A.W.R, Calgary, Alta	From Sept. 1, 1913 to Mar. 31, 1914	.....	0 63	174 37	
Power, J. F., Vancouver, B.C...	Salary as Food Inspector for the year.	... .	0 95	175 65	
O'Sullivan, D. Victoria, B.C....	" " .	.....	1 08	198 84	
Parker, T., Nelson, B.C.....	" " ..	.....	1 08	198 84	
		13 92	16 67	3,870 70	3,870 70

APPENDIX B—*Continued.*

No. 1. Details of Adulteration of Food Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Adulteration of Food.	$ cts.	$ cts.
	General Contingencies.		
McGill for the Ottawa Laboratory	Travelling expenses	501 03	
	Special assistance	510 00	
	Sundries	2,815 97	
Cameron, D. M., Hamilton, Ont.	Travelling expenses and purchases of samples, &c.	246 82	
Hogan, Jas., Kingston, Ont.	" "	237 74	
Talbot, J., London, Ont.	" "	212 79	
Rickey, J. A., Ottawa and Hull.	" "	301 95	
Dager, H. J., Toronto, Ont.	" "	221 71	
Costigan, J. J., Montreal, Que.	" "	485 17	
Kearney, D. J., Montreal, Que.	" "	248 46	
Béland, F. X., Quebec, Que.	" "	398 14	
Roulean, J.C., St. Hyacinthe, Que.	" "	535 95	
Ferguson, J. C., St. John, N. B.	" "	361 18	
Waugh, R. J., Halifax, N.S.	" "	332 19	
Weeks, W. A., Charlottetown, P.E.I.	" "	28 84	
Larivière, A.G., Winnipeg, Man.	" "	191 78	
Markley, A. W. R., Calgary, Alberta	" "	354 01	
Power, J. F., Vancouver, B.C.	" "	62 33	
O'Sullivan, D., Victoria, B.C.	" "	164 65	
Parker, D., Nelson, B.C.	" "	266 45	
Brochu, O., Arnagh, Que.	Special assistance and travelling expenses, &c	126 41	
Delorey, M., Big Tracadie, N.B.	" "	140 70	
Lavallée, V. P., Joliette, Que.	" "	868 40	
Renault, L., Montmagny, Que.	" "	87 47	
Scott, J. O., Régina, Moose Jaw.	" "	28 75	
Cadieux, N., St. Jérôme, Que.	" "	103 66	
Pelletier, Alp., St. Perpétue, Que.	" "	578 75	
Roy, F.X., St. Philippe de Néri.	" "	143 55	
			10,554 85
Valade, Dr. F. X	Allowance under Act for retaining fees	200 00	
	" rent	100 00	
	" material used in analyses	100 00	
			400 00
Fagan, Dr. C. J.	" retaining fees	200 00	
	" rent	100 00	
	" material used in analyses	100 00	
			400 00
Bowman, M.	" retaining fees	200 00	
	" material used in analyses	100 00	
			300 00
Donald, Dr. J. T.	" retaining fees	200 00	
	" rent	100 00	
	" material used in analyses	100 00	
	Retaining fees as member of advisory board of Food Standards	300 00	700 00
Ellis, Dr. W. H.	" "		300 00
Carnew, W.	Law costs vs. sundry persons		40 00
Thurston & Boyd	" "		300 00
Béland, F. X. W.	" "		205 10
Gellan, C. E.	" "		30 00
Murray & McKinnon	" "		36 00
Wells, T.	" "		60 15
Fortin, G.	" "		60 00
Rigney, T. J.	" "		67 40
Wood, R. E.	" "		40 00
Graydon & Graydon	" "		50 00

APPENDIX B—*Continued.*

No. 4.—Details of Adulteration of Food Expenditure for the Year ended March 31, 1914—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Adulteration of Food.	$ cts.	$ cts.
	General Contingencies.		
Curran, T. J.	Law costs *re* sundry persons		386 00
Shurtleff, W. L.	" "		42 20
Sangsters, H. W	" "		30 00
Tiette, J. A	" "		52 25
Kidd, W. J.	" "		20 00
Brassard, E	" "		154 00
Lefèbre, F.	" "		35 20
Lewinson, E. R.	" "		20 00
Macdonald, A. A.	" "		58 00
DelaRonde, R. P	" "		117 80
Baird, W. J	Law costs *re* W. Crossin		20 00
Ward, H. A	" T. Rosevear		10 00
Taylor, G. T.	" D. G. Macdonald		10 00
Wood, C. E.	" W. J. Rantley		20 00
Renson, R. S.	" W. Robinson, Ltd.		10 00
Unsworth, W. W.	" Schnier		10 00
Coleman, W. W.	" Turketop		20 00
Lussier & Guimond	" Adolphe Gladu		20 00
Saunders & Ingram	" Reeks & Co.		30 00
Rochon, G.	" T. H. Leollins.		16 50
McIver, W. E.	" L. Lafrance		10 00
MacDonnell & Costello.	" D. J. McDonald		16 00
Evans, T. W. W.	" J. O. Wilson & Co.		42 40
Stewart, H. A	" Cameron & Downing		5 00
Lymans, Ltd	Supplies and apparatus for laboratory		1,491 36
Topley Co., The	" "		813 39
American Can Co.	" "		70 82
Eimer & Amend	" "		68 85
International Instrument Co.	" "		18 36
3 H. Manfg. Co.	Supplies for laboratory		9 85
American Platinum Works	"		117 55
McLennan, J. R	Installing and completing boiler fixtures.		67 16
Collectors of Customs.	Duty on imported goooods		13 46
Beaty Snow & Naswith	Law costs.		5 00
The 2 Macs.	9 laboratory coats		20 25
McKenzie, Prof. J. J	Travelling expenses *re* Board of Examiners		124 60
Girdwood, Dr. G. P.	" "		100 00
Choquette, Revd. C. P	" "		104 56
Gooderham & Worts, Ltd.	Alcohol for laboratory and express charges, etc.		52 51
Pritchard&AndrewsCo.,Ltd.,The	Stamps and repairs		13 90
Julian Sole Leather Goods Co., Ltd., The	25 bottle cases		28 75
Guimond, Mrs.	For cleaning laboratory		120 00
Lafleur, E., Mrs.	"		266 00
Dessaint, Mrs.	"		364 00
Turpin, A., Mrs.	"		312 00
Esmonde Mfg. Co.	1 refrigerator, &c.		134 96
Postmaster, Ottawa.	Stamps		20 00
Himsworth, W. H.	Petty cash expenses		49 62
Laframboise, L	Special translation		15 33
David, J. A.	"		51 50
	Total		23,017 33
	Add—Printing	5,490 21	
	Stationery	416 27	
			5,906 48
	(Actual disbursements less superannuation and guarantee fund) agreeing with statement No. 6, page 15-16		28,923 81

Inland Revenue Department,
Ottawa, June 1, 1914,

W. HIMSWORTH,
Deputy Minister

APPENDIX B—*Continued.*

No. 5.—Details of Departmental Expenditures for the Year ended March 31, 1914—*Continued.*

Names.		Rank.		Period.	Deductions for			Amounts paid.	Total Amounts paid.
		Division.	Sub-Division.		Superannuation.	Retirement.	Insurance.		
					$ cts	$ cts.	$ cts.	$ cts.	$ cts.
Nantel, Hon. W. B.	Minister			For the year				7,000 00	
Himsworth, W.	Dep. Minister	1	A	"				5,575 00	
Vincent, J. U.	Ass.-Dep. Min	1	A	From Oct. 1, 1913 to Mar. 31, 1914		82 50		1,567 59	
Valin, J. E.	Chief Account	1	A	For the year				2,825 00	
Taylor, G. W.	Secretary	1	A	"	51 00			2,499 00	
Shaw, J. F.	Chief Statistic Clerk	1	A	"				2,700 00	
Doyon, J. A.	Clerk	1	B	"	54 00			2,646 00	
Westman, T.	"	1	B	"	48 00			2,352 00	
Laflamme, J. L. K.	Private Sec'ry			"				600 00	
"	Clerk	1	B	"		111 25		2,113 75	
Quain, R.	Ass. Account.	1	B	"	66 00		61 92	2,072 08	
Fowler, G.	Clerk	1	B	"				2,209 00	
Brodeur, P. E. S.	"	2	A	"		87 50		1,662 50	
Hughes, P. A.	"	2	A	"	59 50		55 92	1,584 58	
McCullough, A.	"	2	A	"	34 00			1,666 00	
Halliday, W. A.	"	2	A	"	57 75			1,592 25	
Roy, L. G.	"	2	A	"	57 75			1,592 25	
Chateauvert, G. E.	"	2	B	"		80 00		1,520 00	
Gervais, J. H.	"	2	B	"		80 00		1,520 00	
Learoyd, D.	"	2	B	From April 1 to Sept. 30, 1913		21 24		403 84	
Lawless, E. M.	"	3	A	For the year		60 00		1,140 00	
Hagerty, B.	"	3	A	"		60 00		1,140 00	
Doyle, E. F.	"	3	A	"		60 00		1,140 00	
Watson, V. M.	"	3	A	"		60 00		1,140 00	
Goodhue, M. L. E. B.	"	3	A	"		60 00		1,140 00	
Trumpour, G.	"	3	A	"		60 00		1,140 00	
Furlong, C. J.	"	3	A	"		60 00		1,140 00	
Beard, M. H.	"	3	A	"		60 00		1,140 00	
Griffith, M. L.	"	3	A	"		60 00		1,140 00	
Yetts, R. P.	"	3	A	"	36 75			1,013 25	
Lewis, H. B.	"	3	A	"		54 38		1,033 12	
Teevens, L. P.	"	3	A	"		52 50	47 28	950 22	
Allen, A. T.	"	3	A	"		52 50		997 50	
Lyon, Anna V.	"	3	A	"		54 38		1,033 12	
Robert, A.	"	3	A	"		50 00		950 00	
Evans, C. J.	"	3	A	"		60 00	41 04	1,098 96	
Cantin, J. W. Z.	"	3	A	"		50 00	53 04	896 96	
Gosselin, B.	"	3	B	From April 1 to Aug. 31 1913		11 87		225 62	
Bourgeois, E.	Messenger			For the year		40 00		760 00	
Roy, L.	"			"		40 00		760 00	
Desroches, L.	"			"		31 25		593 75	
McGill, A.	Chief Analyst	1	A	"	68 00			3,332 00	
Lemoine, A.	Analyst	2	A	"		85 00		1,615 00	
Valin, J. A. G.	"	2	A	"		85 00	36 24	1,578 76	
Forster, E. L. C.	"	2	A	"		85 00		1,615 00	
Forward, C. C.	"	2	A	"		85 00		1,615 00	
Kitto, W. V.	"	2	A	"		81 88		1,555 62	
Rickey, J. A.	Clerk	3	A	"		60 00	75 36	1,064 64	
Wright, S. E.	"	3	A	"		60 00		1,140 00	

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 5.—Details of Departmental Expenditures for the Year ended March 31, 1913—*Continued.*

Names.		Rank.		Period.	Deductions for			Amounts paid.	Tota Amounts paid.
		Division.	Sub-Division.		Superannuation.	Retirement.	Insurance.		
					$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Dawson, J.A.M.	Analyst Asst.	2	B	From May 1 1913 to Mar. 31 1914.....	.....	73 33	.....	1,393 24	
Couture, Papipineau A.....	"	2	B	For the year..	.....	65 00	.....	1,235 00	
Ladouceur, J...	Clerk.... ..	3	A	"	.....	60 00	75 12	1,064 88	
Leckie, T. L....	Messenger....	....	.....	"	.....	28 75	.....	546 25	
Armstrong, W.	Supt. of Met. Spirits Manufacture..	1	B	"	.....	105 00	....	1,995 00	
Parent, F.....	Clerk	3	A	" ...	...	60 00	....	1,140 00	
Popham, F. H..	Warehouseman.	.....	...	From April 1, 1913 to Feb. 28, 1914...	.....	36 63	....	696 63	
Rioual, Yves....	"	...	.....	For the year..	...	27 50	....	522 50	
Cloutier, E....	"	.....	.....	" ...	.....	27 50	.....	522 50	
Dunn, John T.	"	.....	....	From Mar. 2 to Mar. 31, 1914	...	2 02	.....	38 30	
Higman, O.....	Chief Electric Engin. and Insp. of Gas	1	A	For the year..	...	160 00	.....	3,040 00	
Dupré, H. A. ..	Clerk	1	B	From May 5, 1913 to Mar. 31, 1914.....	.....	95 12	.....	1,807 30	
Cole, N. R.	"	3	A	For the year..	.....	58 75	....	1,116 25	
Mathews, E.D.K	"	3	A	" ...	.....	47 50	... .	902 50	
McKell, M.E.E.	"	3	B	"	.....	38 75	....	736 25	
Way, E. O.....	Chief Inspect. of W.and M	1	B	"	...	107 50	.....	2,042 50	
Ostigny, L. R..	Clerk	2	B	" ...	.....	80 00	.. .	1,520 00	
Barbeau, L.....	"	3	B	"	.....	40 00	..	760 00	
Burgess, T. H..	Carpenter.....	....	.... .	"	....	50 00	.... .	950 00	
Chenier, E.. ...	Lower Grade.	...	. .	" ...	. ....	26 88	.....	510 62	
				Totals ...	532 75	3,231 48	445 92	102,319 99	102,319 99

APPENDIX B—*Continued.*

No. 5.—DETAILS of Departmental Expenditures for the Year ended March 31, 1914—*Continued.*

Names.	Services.	Amounts paid.	Total amounts paid
		$ cts.	$ cts.
Nantel, Hon. W. B	Travelling expenses	400 00	
Himsworth, W.	Petty expenses	195 33	
Berland, E	Salary as extra clerk from Apr. 1 to June 30, 1913.	325 01	
Brossard, L. B	" " " Sept. "	650 00	
Cyr, H	" " for the year	537 45	
Labelle, V	" " from Apr. 1 to Sept. 30, 1913.	250 00	
Keliher, J. T	" " from Feb. 7 "	495 37	
Lefebvre, M.	" " from June 16 to Aug. 20, 1913	89 37	
Ethier, J. P.	" " from Sept. 3, 1913, to Mar. 31, 1914	288 84	
Lallier, L.	" " from Sept. 23, 1913, to Mar. 31, 1914	250 00	
Grignon, Eugene	" " from Nov. 11, 1913, to Feb. 28, 1914	152 75	
Sheppard, C. F	" " from Jan. 1 to Mar. 31, 1914.	124 98	
Bouliane, J. M	" " from Jan. 27 "	90 04	
G.N.W. Telegraph Co. of Canada	Telegrams	110 54	
C.P.R. Co's. Telegraph	"	225 88	
Bell Telephone Co	Messages	127 25	
Cr. R. G. King's Printer	Printing	1,844 73	
" "	Publications	153 95	
Cr. R. G. for Cont. of Stationery	Stationery	2,290 24	
Thorton & Truman	Repairs, etc	6 75	
Birkett, T. & Son Co., Ltd	Hardware supplies	3 07	
Verdier, G	Enlarging photograph, etc.	12 00	
Edmonton Journal	Subscription	3 00	
The Citizen, Vancouver	"	1 00	
Daily Province, Vancouver	"	3 00	
Saturday Sunset "	"	6 00	
Daily Colonist, Victoria	"	5 00	
The Week "	"	2 00	
Le Manitoba, St. Boniface	"	1 00	
Les Cloches, de "	"	2 00	
Grain Growers' Guide, Winnipeg	"	1 00	
Northwest Review "	"	1 00	
Winnipeg Telegram "	"	2 00	
The World, Chatham, N.B.	"	2 00	
L'Evangeline, Moncton	"	1 00	
Le Moniteur Acadien, Shediac	"	1 00	
St. John Globe, St. John	"	5 00	
Bridgwater Bulletin	"	1 00	
Halifax Herald	"	5 00	
Evening Mail, Halifax	"	2 00	
Windsor Tribune, N.S.	"	1 00	
The Intelligencer, Belleville	"	3 00	
The Planet, Chatham	"	4 00	
Guelph Herald	"	4 00	
Hamilton Herald	"	3 60	
The Spectator, Hamilton	"	3 00	
Labor News, Hamilton	"	1 00	
Free Press, London	"	3 00	
Evening Citizen, Ottawa	"	30 70	
Evening Journal "	"	14 40	
Free Press "	"	10 80	
United Canada "	"	1 50	
Times, Peterborough	"	10 00	
The Standard, St. Catharines	"	3 00	
Canadian Mining Journal, Toronto	"	4 00	
Mail and Empire, Toronto	"	3 00	
Evening Telegram "	"	3 00	

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 5.—Details of Departmental Expenditure for the Year ended March 31, 1914—*Continued.*

Names.	Services.	Amounts paid.	Total amounts paid.
		$ cts.	$ cts.
Daily Star	Subscription	3 00	
Globe, Toronto	"	6 00	
Freemason, Toronto	"	1 00	
Catholic Register and Canadian Extension, Toronto	"	1 00	
The News, Toronto	"	4 50	
Toronto World	"	5 00	
Saturday Night, Toronto	"	9 00	
The Express, Woodstock	"	1 00	
Daily Examiner, Charlottetown	"	2 50	
Progrès du Saguenay, Chicoutimi	"	1 00	
L'Action Canadienne, Fraserville	"	1 00	
La Semaine, Grand Mère	"	1 00	
L'Etoile du Nord, Joliette	"	0 75	
L'Avenir, de Jancquieres	"	1 00	
Le Peuple, Montmagny	"	1 00	
Gazette, Montreal	"	18 00	
L'Action "	"	4 00	
La Patrie "	"	7 00	
La Presse "	"	7 00	
La Revue Canadienne, Montreal	"	6 00	
Moniteur du Commerce "	"	2 00	
Nationaliste, Montreal	"	2 00	
Le Pays "	"	2 00	
Le Devoir "	"	9 00	
Revue Franco-Americaine, Montreal	"	4 00	
The Herald, Montreal	"	6 00	
Montreal Star "	"	6 00	
Daily Telegraph and Witness, Montreal	"	6 00	
L'Action Sociale, Quebec	"	6 00	
La Nouvelle-France "	"	3 00	
La Semaine Commerciale, Quebec	"	2 00	
L'Evenement, Quebec	"	3 00	
La Vérité "	"	2 00	
The Chronicle "	"	3 00	
Progrès du Golfe, Rimouski	"	1 00	
L'Eveil, Sorel	"	1 00	
Le Sorelois, Sorel	"	2 00	
La Tribune, St. Hyacinthe	"	1 00	
Le Ralliement, St. Joseph Beauce	"	2 00	
Le Bien Public, Three Rivers	"	1 00	
Le Mineur, Thetford Mines	"	1 00	
L'Echo des Bois Francs, Victoriaville	"	1 00	
Le Journal, Waterloo	"	1 00	
Canada Francais, St. Jean	"	1 00	
La Société de Géographie, Quebec	"	2 00	
Le Patriote, Duck Lake, Sask.	"	1 00	
Jones, Yarnell & Co., London, Eng.	"	17 03	
Journal of Gas Lighting "	"	6 69	
Le Canada, London, Eng	"	7 00	
American Food Journal, Chicago	"	1 50	
Munn & Co., New York	"	8 25	
Tobacco World, Philadelphia	"	2 00	
La Canadienne, Paris, France	"	4 00	
The Standard of Empire, Toronto	"	4 00	
	Total		8,972 77

APPENDIX B—*Continued.*

No. 5—DETAILS of Departmental Expenditures for the Year ended March 31, 1914—*Concluded.*

Names.	Services.	Amount paid.	Total amount paid.
		$ cts.	$ cts.
	Total amount expended.....	.....	111,292 76
	ADD—Balance due March 31, 1914.....	.....	16 66
			111,309 42
	LESS—Balance due April 30, 1913.....	.....	16 66
	Actual disbursement agreeing with statement No. 16, page 44.....	.....	111,292 76

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B—*Continued.*

No. 6.—Details of Weights and Measures Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee	Amounts paid.	Total amounts paid.
	Belleville.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Diamond, F. D.	Salary as Inspector for the year			3 60		
Slattery, T.	" as Asst. Inspector, superannuated Dec. 1, 1913	10 64		45	996 36 522 19	
Kylie, R.	" as Asst. Inspector for the year			1 80	798 12	
Howson, G. H.	" " "			1 80	798 12	
	Salaries	10 64		7 65	3,114 79	
	Contingencies				2,460 95	
						5,575 74
	Hamilton.					
Sealey, J. C.	Salary as Inspector for the year			3 60	1,396 32	
Fitzgerald, E. W.	" as Asst. Inspector for the year			1 80	998 16	
Wheatley, A. E.	" " "			1 80	1,098 12	
Laidman, R. H.	" " "			1 80	1,098 12	
Robins, S. W.	" " "			1 80	948 12	
Clegg, J.	" " "			1 80	848 16	
Erick, J. H.	" " "			1 80	798 12	
	Salaries			14 40	7,185 12	
	Contingencies				1,681 19	
						8,866 31
	Kingston.					
Gallagher, T.	Salary as Inspector for the year			3 60	1,096 32	
MacLean, C. E.	" as Asst. Inspector for the year			1 80	614 86	
Davis, J. M.	" as Asst. Inspector from Nov. 1, 1913 to March 31, 1914			60	249 40	
	Salaries			6 00	1,960 58	
	Contingencies				1,428 06	
						3,38
	London.					
Hughes, R. A.	Salary as Inspector for the year			3 60	1,346 34	
Coughlin, D.	" as Asst. Inspector for the year			1 80	998 16	
Thomas, J. S.	" " "			1 80	998 16	
Liddle, D.	" " "			1 80	900 61	
Cada, T. A.	Salary as Asst. Inspector from June 1, 1913 to March 31, 1914			75	332 56	
Robinson, J. T.	Salary as Asst. Inspector from April 1, 1913 to Nov. 1 1913			1 50	665 11	
	Salaries			11 25	5,240 94	
	Contingencies				3,556 65	
						8,797 59
	Ottawa.					
Hinchey, E. H.	Salary as Inspector for the year			3 60	1,564 39	
Breen, J.	" as Asst. Inspector for the year			1 80	1,073 13	
Findlay, R.	" " "			1 80	1,048 20	
Hodgins, G. C.	" " "			1 80	661 07	
Trumpour, F.T.T.	" " "			1 80	610 68	
Church, G. C.	" " "			1 80	748 20	
	Salaries			12 60	5,705 67	
	Contingencies				3,745 93	
						9,451 60

APPENDIX B—*Continued.*

No. 6.—Details of Weights and Measures Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Deduction for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee		
	Toronto.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
McConvey, J. J.	Salary as Inspector for the year			3 60	1,496 40	
Wright, R. J.	" as Asst. Inspector for the year	21 96		1 80	1,076 16	
Smith, J. C.	" " " "			1 80	1,008 90	
Murdock, Jas.	" " " "			1 80	998 16	
Cruickshank, J. L.	" " " "			1 80	898 20	
Fallowdown, W. A.	" " " "			1 80	814 79	
McEachern, C. A.	" " " "			1 80	798 12	
Stokes, R. A.	" as Asst Inspector from June 1, 1913 to March 31, 1914			1 50	831 80	
	Salaries	21 96		15 90	7,922 53	
	Contingencies				2,528 23	
						10,450 76
	Montreal.					
Archambault, J. E.	Salary as Inspector for the year			3 60	1,796 40	
Daoust, J. A.	" Asst. Inspector for the year	25 65		1 80	1,255 85	
Hébert, J. A.	" " "			1 80	1,281 50	
Boudet, E.	" " "			1 80	1,039 81	
Beaulac, J. H.	" " from April 1 to Oct. 31, 1913. Died Oct. 23, 1913			1 05	582 26	
Galipeau, J. B. N.	" Asst. Inspector for the year			1 80	939 85	
Wilson, J. C.	" " " "			1 80	939 85	
Pélanger, S. F.	" " " "			1 80	681 50	
Chapleau, J. R.	" " " "			1 80	681 50	
	Salaries	25 65		17 25	9,198 52	
	Contingencies				4,939 36	
						14,137 88
	Quebec.					
Roy, C. E.	Salary as Inspector for the year			3 60	1,596 36	
Lebel, J. A. W.	" Asst. Inspector. Suspended from Aug. 22 to Oct. 1, 1913.	38 40		1 80	938 49	
Préfontaine, F. H.	" Asst. Inspector. Service dispensed with Aug. 1, 1913			0 60	316 04	
Knowles, C.	" Asst. Inspector for the year			1 80	998 16	
Caldwell, A. B.	" " Service dispensed with Aug. 1, 1913			0 60	149 40	
Beauchamp, L. E.	" Asst. Inspector for the year			1 80	598 20	
Bernatchez, A.	" " " "			1 80	598 20	
Duchesne, N.	" " " "			1 80	598 20	
Bourget, L. J.	" " " "			1 80	998 16	
	Salaries	38 40		15 60	6,791 21	
	Contingencies				5,969 12	
						12,760 33
	St. Hyacinthe.					
Morin, J. P.	Salary as Inspector for the year			3 60	1,296 36	
Dessert, V.	" Asst. Inspector for the year			1 80	948 12	
Champagne, J. A.	" " " "			1 80	698 16	
Boisvert, J. F.	" " from Dec. 1 to March 31, 1914			0 45	199 55	
	Salaries			7 65	3,142 19	
	Contingencies				1,113 69	
						4,255 88

APPENDIX B—*Continued.*

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee	Amounts paid.	Total amounts paid.
	Sherbrooke.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Fournier, L. A	Salary as Inspector for the year	.....	.....	3 60	1,396 36	
Délorme, O. C	" Asst. Inspector for the year	.....	.....	1 80	898 14	
Lemire, J. N	" " from June 1, 1913 to March 31, 1914	.....	.....	1 50	531 82	
	Salaries	.....	.....	6 90	2,826 32	
	Contingencies	.....	.....	.....	2,833 20	
						5,659 52
	Three Rivers.					
Lessard, A	Salary as Inspector for the year	.....	.....	3 60	996 36	
Boldue, E	" Asst. Inspector for the year	.....	*66 00	1 80	782 16	
	Salaries	.....	66 00	5 40	1,778 52	
	Contingencies	.....	.....	.....	1,136 31	
						2,914 83
	St. John.					
Barry, Jas	Salary as Inspector for the year	.....	.....	3 60	1,496 40	
Bernier, J. A	" Asst. Inspector for the year	.....	.....	1 80	798 12	
White, H. E	" " "	.....	.....	1 80	948 12	
LeBlanc, O. J. O	" " "	.....	.....	1 80	698 16	
Limerick, A. K	" " from June 1 to March 31, 1914	.....	.....	1 50	498 0	
	Salaries	.....	.....	10 50	4,439 30	
	Contingencies	.....	.....	.....	577 98	
						5,017 28
	Halifax.					
O'Brien, W	Salary as Inspector for the year	.....	.....	3 60	1,096 32	
Waugh, R. J	" Asst. Inspector for the year	.....	.....	1 80	698 16	
Dillon, D. H	" " "	.....	.....	1 80	598 20	
	Salaries	.....	.....	7 20	2,392 68	
	Contingencies	.....	.....	.....	1,882 96	
						4,275 64
	Pictou.					
Dustan, W.M	Salary as Inspector for the year	27 96	.....	3 60	1,368 36	
Chisholm, J. J	" Asst. Inspector for the year	.....	.....	1 80	906 53	
Campbell, D. A	" from June 1, 1913, to Mar. 31, 1914	.....	.....	1 50	598 46	
	Salaries	27 96	.....	6 90	2,873 35	
	Contingencies	.....	.....	.....	1,400 55	
						4,273 90
	Charlottetown.					
Davy, Edw	Salary as Inspector for the year	.....	.....	3 60	1,096 32	
Hughes, H	" Asst. Inspector for the year	.....	.....	1 80	848 16	
	Salaries	.....	.....	5 40	1,944 48	
	Contingencies	.....	.....	.....	328 52	
						2,273 00
	Winnipeg.					
Walton, Geo	Salary as Inspector for the year	.....	.....	3 60	1,696 32	
McKay, R	" Asst. Inspector for the year	.....	.....	1 80	1,098 14	
Gilby, W. F	" " "	.....	.....	1 80	698 16	

* Insurance.

APPENDIX B—*Continued.*

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee	Amounts paid.	Total amounts paid.
	Winnipeg—Con.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Spicer, H.	Salary as Asst. Inspector for the year			1 80	898 20	
MacLean, D. J.	" " "			1 80	898 20	
Grant, C. D.	" " "			1 80	898 20	
Kerr, John	" " from June 1, 1913, to Mar. 31, 1914			1 50	748 50	
	Salaries			14 10	6,935 72	
	Contingencies				2,979 10	
						9,914 82
	Calgary.					
Costello, J. W.	Salary as Inspector for the year	31 92		3 60	1,564 44	
Gibson, C.	" Asst. Inspector from Dec. 1, 1913, to Mar. 31, 1914			45	299 55	
McLeod, N. T.	" " "			45	299 55	
	Salaries	31 92		4 50	2,163 54	
	Contingencies				3,960 64	
						6,124 18
	Saskatoon.					
Johnston, C. W.	Salary as Inspector for the year			3 60	1,596 36	
MacKinnon, J. W.	" Asst Inspector from April 1, 1913 Resigned Sept. 1, 1913			75	374 25	
Hayward, A. C.	" Asst. Inspector from Aug. 20, 1913, to Mar. 31, 1914			75	299 40	
Welch, W. R.	" Asst. Inspector from Dec. 1, 1913, to Mar. 31, 1914			45	299 55	
Wallace, R.	" " "			45	399 55	
	Salaries			6 00	2,969 11	
	Contingencies				5,478 98	
						8,448 09
	Nelson.					
Parker, Thos.	Salary as Inspector for the year			3 60	1,246 32	
	Salaries			3 60	1,246 32	
	Contingencies				2,801 99	
						4,048 31
	Vancouver.					
Dutton, A. H.	Salary as Inspector for the year			3 60	1,196 40	
Harris, W. H.	" Asst. Inspector for the year			1 80	848 16	
Shaw, J.	" " "			1 80	348 12	
	Salary			7 20	2,392 68	
	Contingencies				737 05	
						3,129 73
	Yukon.					
MacDonald, J. F.	Salary as Inspector from April 1, 1913, to Jan. 1, 1914			2 70	747 59	
	Salary			2 70	747 59	
						747 59
	Chief Inspector.					
Way, E. O.	Contingencies				516 45	516 45

APPENDIX B—*Continued.*

No. 6—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1914.—*Continued.*

To whom paid.	Service.	Amounts paid.	Total Amounts paid.
	Provisional Allowance.	$ cts.	$ cts.
Walton, G., Winnipeg, Man.	To pay McKay, R.	150 00	
" "	" Gilby, W. F.	150 00	
" "	" Spicer, H.	150 00	
" "	" McLean, D. J.	150 00	
" "	" Grant, C. D.	150 00	
" "	" Kerr, Jno.	150 00	
" "	" Walton, Geo.	99 97	
			999 97
Costello, J. W., Calgary, Alta	" Gibson, Christian.	92 74	
" "	" Macleod, N. T.	149 98	
" "	" McDougall, J. C.	106 85	
" "	" Costello, J. W.	99 97	
			449 54
Dutton, Art. H., Vancouver, B.C.	" Dutton, A. H.	124 92	
" "	" Harris, W. H.	150 00	
			274 92
Johnston, C. W., Saskatoon, Sask.	" Mackinnon, J. W.	62 50	
" "	" Hayward, A. C.	50 00	
" "	" Welch, Wm. R.	131 45	
" "	" McIntosh, Wm.	40 73	
" "	" Johnston, C. W.	99 96	
" "	" Wallace, Richard.	82 50	
" "	" Wood, Stephen	62 50	
" "	" Shaw, A.	47 17	
" "	" Greig, J. T.	30 24	
			607 05
Parker, Thos., Nelson, B.C.	" Sutherland, J. W.	150 00	
" "	" Parker, Thos.	124 92	
			274 92
	Total Provisional allowance		2,606 40
	General Contingencies.		
Fyfes G. D.	Salary for the year.		1,200 00
Collectors of Customs	Duty on imported goods		35 84
Pritchard & Andrews, Ltd., The	Stamps and general repairs, &c.		643 16
Chaudière Machine and Foundry Co., Ltd.	700 Standard weights; 27,500 lbs. at $5 per 100		1,375 00
American Bank Note Co.	Stamps supplied		392 65
Central Hardware Co., Ltd.	3 dozs. stamps boxes		27 00
Thornton & Truman	Keys and repairs		3 50
Edwards, W. C., Co.	500 feet dressed pine and cartage		17 75
Ottawa Electric Co.	Current supplied during 9 months		75 00
Thurston & Boyd	Law costs, Rex vs. T. Taylor		20 00
Steel Equipment Co.	Nickle plating of 3 sets of scales		9 00
Muir, Jephson, Adams & Browlee	Law costs, Rex vs. Adolphe Johnston		20 00
Birkett & Son Co., Ltd., The	3 dozs. trunk fasteners		18 00
Bertschinger, A. H.	Repairs to electric motor		29 75
Dominion Warehousing Co.	Storages charges		9 16
Campbell & Gendron.	Law costs, Rex vs. G. Lemay		20 00
Stewart, H. A.	Law costs, Rex vs. J. R. McLaurin		25 00
American Express Co.	Express charges		16 12
Guimond, Mrs	Services as charwoman for the year		177 00
Himsworth, W.	Petty cash expenses		49 46
	Total general contingencies		4,163 39

APPENDIX B—*Continued.*

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1914.—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	The International Bureau of Weights and Measures.	$ cts.	$ cts.
	Annual contribution of the Dominion of Canada towards the Bureau's appropriation for 1913 ..	... .	268 40
	ADD—Printing.....	1,955 49	
	Stationery.....	525 02	2,480 51
	Grand total.....	.... ..	144,546 77
	ADD—Old balances due by Inspectors March 31, 1914.....	.....	3 70
			144,550 47
	LESS—Old balances due by Inspectors March 31, 1913.....	.....	3 70
	Actual disbursements (less superannuation, insurance and guarantee fund) agreeing with statement No. 19a and 19b, pages 50, 51.	.....	144,546 77

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B—*Continued.*

No. 7.—Details of Gas Inspection Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee		
	Belleville.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Diamond, F. D.	Salary as Asst. Inspector from April 1 to July 1, 1913. Transferred to Elec. L.	....	.....	45	74 55	
Bickle, J. W	Salary as Asst. Inspector for the year	1 92	.....	3 60	94 44	
Rork, Thos.	" " "	.....	.....	3 60	146 40	
	Salaries	1 92	.....	7 65	315 39	
	Contingencies	.....	.....	.....	535 28	
						850 67
	Hamilton.					
Lutz, H.	Salary as Inspector for the year	.....	.....	3 60	1,496 40	
Murphy, F. C.	Salary as Asst. Inspector for the year	.....	.....	1 80	1,198 20	
Dennis, W. A.	" " "	.....	.....	1 80	148 20	
Powell, J. B.	" " "	.....	.....	3 60	296 40	
Lovell, Ernest	" " from Dec. 1, 1913 to March 31 1914	.....	.....	0 60	282 71	
	Salaries	.....	.....	11 40	3,421 91	
	Contingencies	.....	.....	.....	2,163 91	
						5,585 82
	London.					
Nash, A. F.	Salary as Inspector for the year	.....	.....	3 60	1,696 40	
Skelton, A. R.	" Asst. Inspector for the year	.....	.....	1 80	968 99	
Male, T.	" " "	.....	.....	3 60	96 36	
Thrasher, W. A.	" " "	.....	.....	3 60	196 32	
Rennie, Geo.	" " "	.....	.....	3 60	196 32	
Orr, H. N.	" "	.....	.....	1 80	198 12	
	Salaries	.....	.....	18 00	3,352 51	
	Contingencies	.....	.....	.....	1,100 12	
						4,452 63
	Ottawa.					
Roche, H. G.	Salary as Inspector from April 1 to Feb. 1, 1914. Died Jan. 11, 1914.	.....	.....	3 00	1,321 97	
Roche, W. J	" Asst. Inspector for the year	.....	.....	2 88	1,022 07	
Bond, M. B.	" " "	.....	.....	2 88	1,022 07	
Convrette, A. A.	" " from April 1, 1913. Appointed Insp. Jan. 15, 1914	.....	.....	2 18	1,042 73	
Chevrier, Roméo J.	" Asst. Inspector from March 27, 1914	.....	.....	0 02	13 42	
	Salaries	.....	.....	10 96	4,422 26	
	Contingencies	.....	.....	.....	1,443 74	
						5,866 00
	Toronto.					
Stiver, J. L.	Salary as Inspector for the year	.....	89 98	3 60	1,706 42	
Pape, Jas.	" Asst. Inspector for the year	.....	.....	1 80	1,448 16	
Reesor, M. W.	" " "	.....	.....	1 80	1,298 16	
Renahan, M. J.	" " "	.....	.....	1 80	989 82	
Ogden, G. J.	" " "	.....	.....	1 80	948 12	
Clark, H. M.	" " "	.....	.....	1 80	998 17	
Johnstone, S. G.	" " "	.....	.....	1 80	998 16	
Wilson, H. H.	" " "	.....	.....	1 80	998 16	
Mills, A. E.	" " "	.....	.....	1 80	898 20	

APPENDIX B—*Continued.*

No. 7.—Details of Gas Inspection Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee		
	Toronto—Con.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Shanacy, M.	Salary as Asst. Inspector for the year	1 92		3 60	94 44	
Broadfoot, S.	" " " "	6 00		3 60	290 40	
Graham, W. J.	" " " "			3 60	196 32	
Hacker, A. N.	" " from Oct. 1, 1913 to March 31, 1914.			0 90	399 06	
	Salaries	7 92	89 98	29 70	11,263 59	
	Contingencies				684 57	
						11,948 16
	Montreal.					
Aubin, A.	Salary as Inspector for the year			3 60	1,996 32	
O'Flaherty, M.J.	" Asst. Inspector for the year			1 80	1,081 51	
Aubin, C.	" " " "			2 88	1,180 40	
Mann, W.	" " " "			2 88	1,047 09	
Boucher, A.	" " from April 1 to June 30, 1913. Resigned			0 45	249 54	
Blandford, E. B.	" Asst. Inspector for the year			1 80	1,048 17	
Clayton, J. W.	" " from Oct. 21, 1913 to March 31, 1914			0 81	445 40	
	Salaries			14 22	7,048 43	
	Contingencies				504 65	
						7,553 08
	Quebec.					
Levasseur, N.	Salary as Inspector for the year	17 50		3 60	1,478 90	
Béland, E.	" as Asst. Inspector for the year			3 60	496 32	
	Salaries	17 50		7 20	1,975 22	
	Contingencies				397 60	
						2,372 82
	Sherbrooke.					
Simpson, A. F.	Salary as Inspector for the year	3 96		3 60	192 36	
Bowen, F. C.	" as Asst. Inspector for the year			1 80	298 20	
	Salaries	3 96		5 40	490 56	
						490 56
	St. Hyacinthe.					
Benoit, L. V.	Salary as Inspector for the year			1 80	98 16	
						98 16
	Fredericton.					
Wilson, J. E.	Salary as Inspector for the year			1 80	98 16	
						98 16
	St. John.					
Wilson, J. E.	Salary as Inspector for the year			3 60	1,396 34	
	Contingencies				163 71	
						1,560 05

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 7.—Details of Gas Inspection Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee		
	Halifax.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Toale, J.	Salary as Inspector for the year			3 60	1,296 37	
Withers, S. W.	" as Asst. Inspector for the year			1 80	998 17	
Munro, H. D.	" " "	1 92		1 80	96 24	
	Salaries	1 92		7 20	2,390 78	
	Contingencies				591 66	
						2,982 44
	Charlottetown.					
Bell, J. H.	Salary as Inspector for the year			3 60	496 32	
						496 32
	Winnipeg.					
Hamilton, R.	Salary as Inspector for the year			3 45	1,646 40	
Babington, F. C.	" as Asst. Inspector for the year			1 80	1,173 20	
Ross, W. A.	" " "			1 89	848 07	
Weber, Louis.	" " "			1 95	998 16	
Hood, H.	" as Asst. Inspector from March 1st to March 31st 1914			15	74 85	
Pankhurst, Geo. F.	" as Asst. Inspector from Oct. 1st, 1913 to March 31st, 1914			90	499 08	
	Salaries			10 14	5,239 76	
						5,239 76
	Calgary.					
Kyle, W. P.	Contingencies					402 64
	Edmonton.					
Jones, Bruce B.	Contingencies					14 38
	New Westminster.					
Wolfenden, W.	Salary as Inspector from April 1st to July 1st, 1913		2 49	90	46 59	
						46 59
	Vancouver.					
Stott, Jas.	Contingencies					139 65
	Victoria.					
Dresser, F.	Salary as Inspector for one year			3 60	1,396 32	
Shaw, J.	" as Asst. Inspector for the year			3 60	96 36	
	Salaries			7 20	1,492 68	
	Contingencies				13 85	
						1,506 5
	Eastern Dominion Inspector.					
Lambe, A. B.	Contingencies					175 6
	Western Dominion Inspector.					
Higman O., jr,	Contingencies					499 8

APPENDIX B—*Continued.*

No. 7—Details of Gas Inspection Expenditures for the Year ended March 31, 1914—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	General Contingencies.	$ cts.	$ cts
Pritchard & Andrews Co., Ltd., The	Stamps, general repairs, &c	176 17	
Collectors of Customs	Duty paid on imported goods	322 25	
American Bank Note Co	Stamps supplied	150 00	
Canadian Consolidated Rubber Co	Rubber tubing, &c.	321 12	
Baid, W. J	Law costs Rex *vs.* Vancouver Gas Co.	138 50	
Wright, A. & Co., Ltd	24 Sulphur test burners	88 82	
Lymans, Ltd	Funnels, &c	5 25	
McPhillips & Wood	Law costs, Rex *vs.* Vancouver Gas Co.	59 60	
Dominion Warehousing Co	Freight and storage charges	63 15	
Sugg, W. & Co., Ltd	Apparatus, &c., for laboratory	1,208 71	
Roper, W. P	29 Colorimeters	2,920 00	
Dominion Express Co	Express charges	5 64	
Grand Trunk Railway Co	Freight	2 49	
Himsworth, W	Petty cash expenses	24 70	
	Total of gen. contingencies		5,486 40
	Add—Printing	3,328 66	
	" Stationery	1,418 08	
			4,746 74
	Grand total		62,613 01
	Add—Balances due by Inspectors March 31, 1914		212 88
			62,825 89
	Less—Balances due by Inspectors March 31, 1914		212 88
	Actual disbursements (less superannuation, retirement and guarantee) agreeing with statement No. 21, page 54		62,613 01

Inland Revenue Department,
Ottawa, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B—*Continued.*

No. 8.— Details of Electric Light Inspection Expenditures for the Year ended March 31, 1914.

To whom paid.	Service.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Belleville.	$ cts.	$ cts.	$ cts.
Fraser, H	Salary as Asst. Inspector from April 1 to June 30, and as Inspector from July 1 to March 31, 1914	7 20	1,067 73	
Diamond, F. D	" Asst. Inspector from July 1 to Mar. 31, 1914.	1 35	223 65	
	Salaries	8 55	1,291 38	
	Contingencies		221 63	
				1,513 01
	Fort William.			
Little, E	Salary as Inspector for the year	3 60	1,196 40	
	Contingencies		371 08	
				1,567 48
	Hamilton.			
Lutz, H	Contingencies			682 00
	London.			
Nash, A. F	Contingencies			1,066 50
	Ottawa.			
Couvrette, A. A	Contingencies			671 45
	Toronto.			
Stiver, J. L	Contingencies			987 18
	Ontario.			
Kinsman, E. A	Salary as Inspector for the year	1 80	1,131 48	1,131 48
	Montreal.			
Aubin, A	Contingencies			1,095 58
	Quebec.			
Levasseur, N	Contingencies			687 00
	Sherbrooke.			
Simpson, A. F	Contingencies			149 56
	St. Hyacinthe.			
Provost, J. E	Salary as Inspector for the year	1 80	298 20	
	Contingencies		325 85	
				624 05
	Three Rivers.			
Robitaille, G. W	Salary as Inspector for April, 1913	15	41 51	
Olivier, A	" " from Aug. 19, 1913, to Mar. 31, 1914	2 22	306 87	
	Salaries	2 37	348 38	
	Contingencies		177 75	
				526 13

APPENDIX B—*Continued.*

No. 8. Details of Electric Light Inspection Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	St. John.	$ cts	$ cts.	$ cts.
Wilson, J. E.	Contingencies			221 93
	Halifax.			
Toale, John.	Contingencies			732 16
	Charlottetown.			
Bell, J. H.	Contingencies			108 36
	Winnipeg.			
Hamilton, R.	Contingencies			2,056 18
	Calgary.			
Kyle, W. P.	Salary as Inspector for the year	3 60	1,496 40	
Jones, B. B.	" Asst. Inspector for the year	1 80	1,198 26	
	Salaries	5 40	2,694 60	
	Contingencies		389 47	
				3,084 07
	Edmonton.			
Roe, E. A	Salary as Inspector from April 1 to Aug. 27, 1913, Resigned	1 50	603 33	
	Contingencies		1,108 26	
				1,711 59
	Regina.			
Hunter, W. M.	Salary as Inspector for the year	3 60	1,296 36	
Hart, S. N.	" Asst. Inspector from Dec. 1, 1913 to March 31, 1914	0 60	399 40	
	Salaries	4 20	1,695 76	
	Contingencies		1,329 11	
				3,024 87
	Vancouver.			
Stott, Jas.	Salary as Inspector for the year	3 60	1,763 06	
Templeton, W. A	" Asst. Inspector for the year	3 60	1,246 32	
Power, O. S.	" " "	1 80	1,148 16	
Scouler, G. T.	" " "	1 80	1,198 20	
Wolfenden, W.	" " from July 1, 1913 to March 31, 1914	2 70 7 47*	139 77	
	Salaries	20 97	5,495 51	
	Contingencies		1,625 16	
				7,120 61
	Victoria.			
Dresser, F.	Contingencies			338 43
	Yukon.			
Macdonald, J. F.	Salary as Inspector from April 1 to Dec. 31, 1913	2 70	372 58	
				72 5

* Retirement.

APPENDIX B—*Continued.*

No. 8.—Details of Electric Light Inspection Expenditures for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Chief Engineer.	$ cts.	$ cts.	$ cts.
Higman, O., Sr...	Contingencies.....	.....	.....	851 19
	Inspector of Eastern Dominion.			
Lamb, A. B. ..	Salary for the year.....	3 60	2,571 33	
	Contingencies.....	.... .	292 25	
				2,863 58
	Inspector of Western Dominion			
Higman, O., Jr...	Salary for the year..	3 60	2,571 33	
	Contingencies.....	....	970 20	
				3,541 53

APPENDIX B—*Continued.*

No. 8—DETAILS of Gas and Electricity Expenditure for the Year ended March 31, 1914—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Provisional allowance.	$ cts.	$ cts.
Hamilton, R., Winnipeg	To pay Hamilton, R	99 96	
	" Babington, F. C	124 92	
	" Pankhurst, G	124 92	
	" Ross, W. A	150 00	
	" Hood, Henry	104 13	
	" Weber, L	124 92	
			728 85
Jones, B. B., Edmonton	" Roe, E. A	41 66	
	" Kyle, Wm. P	100 02	
	" Jones, B. B	125 03	
			266 71
Hunter, W. M., Regina	" Hunter, W. M	124 86	
	" Hart, S. N	41 60	
			166 46
Stott, Jas., Vancouver	" Stott, Jas	99 97	
	" Costello, E. R	99 97	
	" Higman, O., Jr	25 00	
	" Templeton, W. A	124 94	
	" Power, O. S	124 94	
	" Scanler G. T	124 94	
			599 76
Dresser, F., Victoria	" Dresser, F	125 04	125 94
	Total for Provisional allowance		1,886 82

APPENDIX B—*Continued.*

No. 8—Details of Electric Light Inspection Expenditures for the Year ended March 31, 1914—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	General Contingencies.	$ cts.	$ cts.
American Bank Note Co	Stamps supplied	118 50	
Ahearn & Soper, Ltd	3 portable voltage transformers	112 35	
Canadian General Electric Co., Ltd., Toronto	Apparatus and supplies for laboratory	2,269 60	
Siemens Co. of Canada, Ltd.	Apparatus for laboratory	3,204 20	
Tinsley H. & Co	" "	794 15	
States Co., The	3 panels for table	546 68	
Lambe, A. B.	Travelling expenses	566 05	
Weston Electrical Instrument Co.	Apparatus, etc., for laboratory	441 64	
Collectors of Customs	Duty paid on imported goods	1,356 00	
Canadian Fairbanks Morse Co., The	12 glass jars and 2 hydrometers	8 65	
Schaeffer & Budenberg Mfg. Co.	36 "U" pressure gauges	151 40	
Canadian General Electric Co., Ltd., Ottawa	Apparatus for laboratory	127 00	
Ottawa Electric Co. The	Electrical current for testing (9 mos.)	187 50	
Marchand & Donneley	1 motor	7 50	
Standard Underground Cable Co., Ltd.	General supplies	135 07	
Cutter-Hammer Mfg. Co.	3 sets Rheostats	57 33	
Canadian Westinghouse Co., Ltd.	Repairs of instruments, &c	42 90	
Gould, A. L.	Repairing storage battery, &c	39 60	
Pittsburg Motor Co	2 orifice provers	200 25	
Dominion Warehousing Co	Express and storage charges, &c	14 00	
Smith, S. & Son, Ltd	12 chronograph watches and repairs	202 70	
Lymans, Ltd	30 lbs. mercury	19 75	
Meadows & Co	Insurance	5 10	
Smith, Miss T.	Charwoman, services	156 00	
Himsworth, W	Petty cash expenses	24 35	
	Total of general contingencies		10,788 27
	International Electro-Technical Commission		243 61
	Grand total		49,647 20
	Add—Printing	5 75	
	Stationery	422 25	
			428 00
	Actual disbursements (less retirement and guarantee) agreeing with Statement No. 23, page 59		50,075 20

Inland Revenue Department,
Ottawa, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B—*Continued.*

STATEMENTS No. 9—Showing the amount paid during the Year 1913-14 to different companies for guaranteeing outside officers of the Inland Revenue Department.

	Amounts paid.	
	$ cts.	
Railway Passengers Assurance Co	200 66	
The Imperial Guarantee and Accident Insurance Co. of Canada	515 94	
The Dominion of Canada Guarantee and Accident Insurance Co.	408 36	
The Guarantee Co. of North America	473 08	
London Guarantee and Accident Co.	178 33	
The Employers Liability Assurance Corporation, Ltd	476 29	
Total		2,252 66

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 10.—STATEMENT showing the number of parties under licenses for the Year 1914–1915.

Divisions.	Distillers.	Brewers and Maltsters.	Brewers.	Maltsters.	Tobacco Manufacturers.	Cigar Manufacturers.	Bonded Warehouses.	Manufacturers in Bond.	Vinegar. Liniment.	Chemical Stills.	Acetic Acid Manufacturers.	Mfgrs. of Pharmaceutical Preparations.	Mfgrs. of Perfumes.	Petroleum Refiners.	Wood Alcohol Manufacturers.	Manufacturers in Bond (Sundries)
Belleville, (Distillery at Thurlow Tp.) H. Corby Distillery Co., Ltd	1	1				1	4	1								
Brantford		1	1			5	2	1								
Guelph, (Distillery at Waterloo), Joseph E. Seagram	1	4	2	1		7	2									
Hamilton, Wm. Marshall	1	1	1	1	1	14	3	2	1	1	1					
Kingston		1	1			2	4	1		1		1				
London		2	2			27	6			2				3		
Ottawa			2			1	8	1							1	
Owen Sound			4	1				1							1	
Perth, Spalding & Stewart: John A. McLaren Estate	2		2	2	1	2	12			2		1	1			1
Peterborough		1				1	2									1
Port Arthur			3			1	8									
Prescott, J. P. Wiser & Sons, Ltd	1	1	2	1		2	1									1
St. Catharines			2			9	1			1						
Stratford			2			5	3						1			
Toronto, Gooderham & Worts, Ltd.: The General Distillery Co., Ltd	2	4	7	1	4	24	9	2		27		4	4	1	4	3
Windsor, (Distillery at Walkerville) Hiram, Walker & Sons, Ltd	1		2	1	3	5	4	1		3		5	2	1		1
Ontario	9	16	33	8	9	108	69	10	1	37	1	11	8	5	6	7
Joliette, (Distillery at Berthierville) Melchers Gin and Spirits Distillery Co., Ltd	1				8	6	3			1						
Montreal, The Montreal Products Co., Ltd	1	3	3	1	7	35	19	2		18	1	4	4		2	2
Quebec		1	1		5	3	15	1								
St. Hyacinthe, The St. Hyacinthe Distillery Co., Ltd.	1				3	6	9									
Sherbrooke			1		1	6	4								2	1
Three Rivers			1		4	4	5									
Quebec	3	4	6	1	58	60	55	3		19	1	4	4		4	3
St. John — New Brunswick			2			3	7	2								
Halifax			3			3	4									
Pictou					1	2	4									
Nova Scotia			3		1	5	8									
Charlottetown — Prince Edward Island					4											
Winnipeg — Manitoba		1	6	2	1	11	26	2		2		3	3			1
Moose Jaw — Saskatchewan			4			5	17									
Calgary — Alberta			5	1	3	11	28	2		2			2			1
Vancouver (Distillery at New Westminster), The B.C. Distillery Co., Ltd	1		20		4	23	21	1		9						
Victoria		1	6			11	7			3						
British Columbia	1	1	26		4	34	28	1		12						
Dawson — Yukon Territory			1				2									
Grand Totals	13	24	86	12	80	237	240	20	1	72	2	18	17	5	10	12

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B—*Continued.*

No. 11.—Summary statement showing the number of permanent officers employed in the different services of the Inland Revenue Department during the year ended March 31, 1914.

DEPARTMENT AT OTTAWA.

—	Number of Officers employed.
Inside Service	67

EXCISE (Outside Service).

Divisions.	Provinces.	Number of Officers employed.
Belleville	Ontario	10
Brantford	"	6
Guelph	"	17
Hamilton	"	20
Kingston	"	7
London	"	19
Ottawa	"	8
Owen Sound	"	5
Perth	"	12
Peterborough	"	2
Port Arthur	"	4
Prescott	"	10
St. Catharines	"	5
Stratford	"	6
Toronto	"	38
Windsor	"	27
Joliette	Quebec	9
Montreal	"	52
Québec	"	13
St. Hyacinthe	"	10
Sherbrooke	"	6
Three Rivers	"	4
St. John	New Brunswick	11
Halifax	Nova Scotia	9
Pictou	"	5
Charlottetown	Prince Edward Island	3
Winnipeg	Manitoba	19
Calgary	Alberta	8
Moosejaw	Saskatchewan	6
Vancouver	British Columbia	22
Victoria	"	6
Dawson	Yukon Territory	1

District Inspectors.

District Inspector and Inspector of Bonded Factories	Ontario	1
District Inspectors	"	2
" "	Quebec	2
" "	New Brunswick	1
District Inspector and Inspector of Malt Houses and Breweries	Manitoba	1
District Inspector	Alberta	1
" "	British Columbia	1
Inspector of Tobacco Factories	Dominion	1
Inspector of Distilleries	"	1
	Grand total for excise	391

APPENDIX B—*Continued.*

No. 11.—Summary statement showing the number of permanent officers—*Continued.*

WEIGHTS AND MEASURES. (Outside Service.)

Districts.	Provinces.	Number of Officers employed.
Belleville	Ontario	4
Hamilton	"	7
Kingston	"	3
London	"	6
Ottawa	"	6
Toronto	"	8
Montreal	Quebec	9
Quebec	"	9
St. Hyacinthe	"	4
Sherbrooke	"	3
Three Rivers	"	2
St. John	New Brunswick	5
Halifax	Nova Scotia	3
Pictou	"	3
Charlottetown	Prince Edward Island	2
Winnipeg	Manitoba	7
Calgary	Alberta	3
Saskatoon	Saskatchewan	5
Nelson	British Columbia	1
Vancouver	" "	3
Dawson	Yukon Territory	1
	Grand total for Weights and Measures	94

GAS. (Outside Service.)

Districts.	Provinces.	Number of Officers employed.
Belleville	Ontario	3
Hamilton	"	5
London	"	6
Ottawa	"	5
Toronto	"	13
Montreal	Quebec	7
Quebec	"	2
Sherbrooke	"	2
St. Hyacinthe	"	1
Fredericton and St. John	New Brunswick	1
Halifax	Nova Scotia	3
Winnipeg	Manitoba	6
Charlottetown	Prince Edward Island	1
Calgary	Alberta	1
Edmonton	"	1
New Westminster	British Columbia	1
Vancouver	" "	1
Victoria	" "	2
	Grand total for gas	61

APPENDIX B—*Continued.*

No. 11.—Summary statement showing the number of permanent officers—*Continued.*

ELECTRIC LIGHT (Outside service.)

Districts.	Provinces	Number of officers employed.
Belleville	Ontario	2
Fort William	"	1
Hamilton	"	1
London	"	1
Ottawa	"	1
Toronto	"	1
"	" (General)	1
Montreal	Quebec	1
Quebec	"	1
Sherbrooke	"	1
St. Hyacinthe	"	1
Three Rivers	"	2
St. John	New Brunswick	1
Halifax	Nova Scotia	1
Charlottetown	Prince Edward Island	1
Winnipeg	Manitoba	1
Calgary	Alberta	2
Edmonton	"	1
Regina	Saskatchewan	2
Vancouver	British Columbia	5
Victoria	"	1
Dawson	Yukon Territory	1
Eastern Dominion	General	1
Western Dominion	"	1
	Grand total for Electric Light	32

ADULTERATION OF FOOD (Outside service.)

Residences.	Province.	Number of officers employed.
Hamilton	Ontario	1
Kingston	"	1
London	"	1
Toronto	"	1
Montreal	Quebec	1
"	"	1
Quebec	"	1
St. Hyacinthe	"	1
St. John	New Brunswick	1
Halifax	Nova Scotia	1
Charlottetown	Prince Edward Island	1
Winnipeg	Manitoba	1
Calgary	Alberta	1
Vancouver	British Columbia	1
Victoria	"	1
Nelson	"	1
	Grand total of Adulteration of Food	16

APPENDIX B.—*Concluded.*

No. 11.—Summary statement showing the number of permanent officers—*Concluded.*

PREVENTIVE SERVICE.

Divisions.	Provinces.	Number of officers employed.
Toronto	Ontario	1
St. John	New Brunswick	1
	Total	2

RECAPITULATION.

Departmental staff, Ottawa	67
Excise, (Outside service)	363
Excise, Weights and Measures and Electric Light	1
Excise and Gas	13
Excise and Food	13
Excise and Weights and Measures	1
Weights and Measures	89
Weights and Measures and Food	2
Weights and Measures and Gas	1
Gas	29
Gas and Electric Light	17
Gas and Food	1
Electric light	14
Preventive service	2
Grand total of employees	613

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

INDEX

		Page.
Abbott, H. F.	Duty-pay	143
"	Salary	128
Acetic Acid	Duty accrued	22-23
"	License fees	22-23
" Return of Manufactures for the year 1913-14		120
" " "	Comparative statement for 1913-14	120
" Revenue		6-8
" "	Comparative Statement showing monthly increase or decrease for 1912-13 and 1913-14	34-35
Action Canadienne, L', Fraserville	Subscription	155
Action de Montréal, L'	"	155
Action Sociale, L', Québec	"	155
Adam, A. R.	Duty-pay	143
"	Salary	129
Adulteration of Food, Expenditures page 16	Details of	149 to 151
"	Fees and Penalties	19
"	Refunds	43
"	Vote for	60
" Fees and Penalties	Monthly Deposits	24 to 33
Ahearn & Soper, Ltd	Electrical supply, &c	171
Alexander, T.	Contingencies and salary	137
Allen, A. T.	Salary	152
Allen, B. K.	"	122
Allen, G. A.	Duty-pay	143
"	Provisional allowance	140
"	Salary	135
Alteman, P. J.	"	123
American Bank Note Co.	Contingencies	138, 161, 166, 171
American Canadian Co.	"	151
American Express Co	"	161
American Food Journal	Subscription	155
American Platinum Works	Contingencies	151
Amor William	Duty-pay	143
"	Salary	123
Amount voted and expenditure authorized for each service		60
Andrews, A. A.	Salary	130
Andrews, B. G.	Commission	141
Appendix "A"	Statistics	63
" "B"	Details of expenditures, &c	122
Arcand, D.	Distribution of seizures	146
"	Salary and contingencies	131
Archambault, J. E.	" "	158
Archambault, F. X.	"	132
Armstrong, F.	Provisional allowance	140
Armstrong, T. E.	Salary	125
Armstrong, W.	"	153
Arnold, H. R.	Refunds	43
Arnprior Chronicle	Contingencies	148
Ashton, Henry	Provisional allowance	139
Atkins, B. R.	" "	140
Aubin, A.	Contingencies and salary	164
"	"	167
Aubin, C.	Salary	164
Auger, L. H.	"	133
Avenir de Jonquière, L'	Subscription	155
Babington, F. C.	Provisional allowance	170
"	Salary	165
Baby, W. A. D.	Duty-pay	143
"	Salary	123
Baikie, D.	"	125
Baird, W. J.	Law-costs	138, 151, 166
Ball, J. A.	Commission	141
Ballentine, A.	Salary	123
Barbeau, L.	"	153
Barber, J. S.	"	128
Barnes, G.	"	126
Barrett, J. K.	Contingencies and salary	137
Barrett, J. P.	Salary	134
"	Provisional allowance	139

		Page.
Barrette, J. E	Salary	129
"	Duty-pay	144
Barrie Malting and Extract Co. Ltd., The	Refunds	41
Barry, J	Salary and contingencies	159
Bauer, A	Refunds	37, 42
Bayard, G. A	Duty-pay	143
"	Salary	129
Beard, M. H	"	152
Beasley, M. C	"	123
Beaty Snow & Naswith	Contingencies	151
Beauchamp, L. E	Salary	158
Beaulac, J. H	"	158
Beaulieu, J. B	"	131
Beaulieu, R	"	131
Begg, G. C	Refunds	41
Bélair, A. P	Salary	131
Béland, E	"	164
Béland, F. X. W. E	"	149
"	Travelling expenses, &c	150
Béland, F. X. W	Law Costs	150
Bélanger, A	Provisional allowance	139
Bélanger, S. F	Salary	158
Bell, J. H	Contingencies	168
"	Salary	165
Bell Telephone Co. The	Contingencies	154
Bell, W. H	Provisional allowance	139
Belleperche, A. J. E	Salary	129
Belleville Electric Light District	Contingencies and salaries	167
" Excise Division	" "	122
" Gas District	" "	163
" Weights and Measures Division	" "	157
Bellivean, L. C	Salary	131
Belyea, T. H	Contingencies and salaries	133
"	Distribution of seizures	146, 147
Bénéteau, S	Salary	129
Benjamin, E. R	Bill stamps	17
Bennett, James	Salary	125
Benoit, L. V	Contingencies and salaries	132, 164
Bergeron, E. L	Salary	131
Bergeron, R. J	Duty-pay	143
"	Salary	129
Berland, E	"	154
Berlin Lion Brewery, Ltd. The	Refunds	37, 42
Bernard, A. H	Salary	135
"	Provisional allowance	139
Bernard, N. J. D	Duty-pay	144
"	Salary	132
Bernardt, V. P	Refunds	42
Bernatchez, A	Salary	158
Bernier, Jean A	Contingencies and salary	130
"	Distribution of seizures	146
Bernier, J. A	Salary	159
Berry, H. L	Duty-pay	143
"	Salary	129
Bertchinger, A. H	Contingencies	161
Bezaire, T. M	Salary	129
Bickle, J. W	Salaries	126, 163
Bien Public, Le, Three Rivers	Subscription	155
Bill Stamps. Distributor's Accounts		17
Billings, W	Salary	127
Birkett, T. & Sons & Co., Ltd. The	Contingencies	138, 154, 161
Bissell, C. H	Duty-pay	143
"	Salary	126
Bixel, A	Refunds	40
Blackader, Dr. A. D	Contingencies	148
Blackman, C	Salary	123
Blair, Alex	Commission	141
Blake & Dunne	Refunds	40
Blandford, E. B	Salary	164
Blethen, C. W	"	133, 134
Blyth, A	"	125
Boisvert, J. F	"	158
Bolduc, E	"	159
Bolduc, Rémi	Law costs	138
Bond, M. B	Salary	163
Bonded Factories	Inspector of	137

		Page.
Bonded Manufactures	License fees	22–23
" "	Revenue	6–8
" W. H. Licenses	Refunds	43
Boomer, J. B	Salary	127
Borne, J. B	Law costs	138
Bosquet, A	Salary	131
Bouchard, J. O	Duty-pay	144
Boucher, A	"	164
Boucher, Alex	"	131
Boudet, E	"	158
Bouliane, J. M	"	154
Bourgeois, Eug	"	152
Bourget, L. F	"	158
Bourget, O	Distribution of seizures	146
"	Salary	131
Bousquet, J. O	Duty-pay	143
"	Salary	130
Bouteillier, G. A	Duty-pay	143
"	Salary	128
Bowen, F. C	"	133,164
Bowie & Co., Brewery, Ltd	Refunds	40
Bowman, A	Salary	123
Bowman, A. M	Food analyst	159
Boyd, J. F. S	Duty-pay	143
"	Salary	123
Boyle, P	"	124
Brabant, J. B. G. N	Distribution of seizures	146
"	Salary	130
Brain, A. F	Contingencies and salary	137
Brantford, Excise Division	" and salaries	122
Brassard, E	Law costs	151
Brasserie Champlain Ltée, La	Refunds	42
Breen, J	Salary	157
Brennan, J	Duty-pay	144
"	Salary	128
Breweries and Malt Houses	Inspector of	137
Brick, J. H	Salary	157
Bridgman, M. W	Contingencies and salary	126
Bridgwater Bulletin	Subscription	154
British American Bank Note Co	Contingencies	138
British Columbia Distillery Co., Ltd. The	Refunds	42
British Columbia Excise District	Contingencies and salaries	137
Britton, W. H	Commission	141
Broadfoot, S	Salaries	123, 164
Brochu, O	Contingencies	150
Brodeur, P. E. S	Salary	152
Brossard, L. B	"	154
Brown, G	Commission	141
Brown, W. J	Duty-pay	144
"	Salary	122
Bruce, G. B	Provisional allowance	139
"	Salary	135
Buckingham and Cumberland Ferry	Lessee	21
Buffalo and Point Abinot Ferry	"	21
Burgess, T	Salary	153
Burke, T	"	137
Burns, R. J	"	127
Byrnes, W. P	Duty-pay	143
"	Salary	126
Cada, T. A	"	157
Cadieux, N	Contingencies	150
Cahill, J. W	Duty-pay	143
"	Salary	129
Caldwell, A. B	"	158
Calgary B. & M. Co., Ltd	Refunds	38, 39, 40
" District Inspector	Contingencies and salary	137
" Electric Light District	" "	168
" Excise Division	" and salaries	135
" Gas District	"	165
" Weights and Measures Division	" and salaries	160
Cameron, D. M	Salaries	123, 149
"	Travelling expenses	150
Cameron, R	Law Stamps	18
Campbell, A. E	Salary	163
Campbell, D. A	"	159
Campbell, D. A	Refunds	43

		PAGE.
Campbell, T. N.	Salary	135
"	Provisional allowance	139
Campbell & Gendron	Contingencies	161
Canada Français, Le	Subscription	155
Canada Le London, Eng	"	155
Canada Malting Co, Ltd. The	Refunds	37, 39, 41, 42
Canadian Bank of Commerce	"	36
Canadian Brewing & Malting Co., Ltd	"	37, 38, 39, 40, 42
" Consolidated Rubber Co., Ltd	Contingencies	138, 166
" Fairbanks Morse Co., The	"	171
" General Electric Co., Ltd., Ottawa	"	171
" " " " Toronto	"	171
" *Mining Journal*, Toronto	Subscription	154
" Pacific Railway Telegraph Co	Messages	154
" Twist Tobacco	Quantity taken for consumption	22, 23
" Westinghouse Co	Contingencies	171
Canadienne, La, Paris, France	Subscription	155
Cantin, J. W. Z.	Salary	152
Capital Brewing Co., Ltd., The	Refunds	40
Carling, T. H.	"	37, 41
Carmichael, D.	Provisional allowance	140
Carnew, W	Law costs	150
Carroll, D.	Salary	133
Carroll, F. P.	"	134
Casey, F. J	"	133
Casual Revenue	Monthly deposits	32, 33
Catholic Register and Canadian Extension, Toronto	Subscription	155
Caven, W.	Distribution of seizures	146
"	Salary	130
"	Contingencies and salary	137
Central Hardware Co., Ltd	"	161
Chagnon, C. P	Salary	130
Champagne, J. A	"	158
Chapleau, J. R	"	158
Chaput, N. J	Duty-pay	144
Charlottetown Electric Light District	Contingencies	168
" Excise Division	" and salaries	134
" Gas District	"	165
" Weights and Measures Division	" and salaries	159
Chartier, E.	Salary	132
Chateauvert, G. E.	"	152
Chaudière Machine and Foundry Co., Ltd	Contingencies	161
Chenier, E.	Salary	153
Cheseldine, J. H	"	123
Chevrier, R. J	"	163
Chief Analyst	Travelling and other expenses	150
Chief Electrical Engineer	Contingencies	169
Chief Inspector of Weights and Measures	"	160
Chilver, F. W	Duty-pay	143
"	Provisional allowance	140
"	Salary	136
Chisholm, J. A	"	125
Chisholm, J. J	"	159
Chisholm, W. N	"	125
Choquette, Revd. Father	Contingencies	151
Chronicle, The, Quebec	"	155
Church, G. C	Salary	157
Cigarettes—Number taken for consumption		22, 23
Cigars—Comparative statement of manufactures for 1912-13 and 1913-14		106, 107
" License Fees		22, 23
" Number taken for consumption		22, 23
" Returns of manufactures for 1913-14		104, 105
" Revenue		6, 8
" " Comparative statement showing increase or decrease for 1912-13 and 1913-14		34, 35
" Refunds		43
" Warehouse returns		108, 109
" " Comparative statement for 1912-13 and 1913-14		110
Citizen, The, Vancouver	Subscription	154
Clair Station and Kent Ferry	Lessee	21
Clark, A. J	Commission	141
Clark, H. M.	Salary	163
Clark, J. A.	"	133
Clark, T.	"	125
Clayton, J. W.	"	164
Clegg, J.	"	157

		Page.
Clements, R. S.	Provisional allowance	140
"	Salary	136
Cloches de St. Boniface, Les	Subscription	154
Cloutier, E.	Salary	153
Codd, S. J. S	"	130
Code, A.	Provisional allowance	139
"	Salary	134
Cole, N. R	"	153
Coleman, C.	"	127
Coleman, J. J.	Duty-pay	143
"	Salary	131
Coleman, W. W	Law costs	151
Coles, F. H.	Salary	124
Collection Divisions in account with expenditures		10 to 13
" " revenue		6 to 9
Collector of Customs	Customs duties	138, 151, 161, 166, 171
Commercial Feeding Stuffs	Monthly deposits	24 to 33
Commission on tobacco stamps	Vote for	60
" to Customs officers, page 12	Details of expenditure	141–142
" " "	Vote for	60
Comte, L. A. A. J.	Distribution of seizures	146
"	Salary	130
Conklin, W. M.	Contingencies and salary	135
"	Distribution of seizures	147
"	Provisional allowance	159
Contingencies	Adulteration of food	150–151
"	Departmental	154–155
"	Electric Light, General	171
"	Excise General	138
"	Gas, General	166
"	Minor expenditures	148
"	Weights and Measures, General	161
Controller of Stationery	Stationery, &c	154
Controller of Dawson	Law Stamps	18
Cook, W. J	Salary	122
Cook, W. R	"	128
Cooke, H. E.	Refunds	43
Copland Brewing Co., Ltd	"	41
Corby, H. Distillery Co.	Refunds	40
Corriveau, O.	Duty-pay	144
Cosgrave Brewery Co., Ltd., The	Refunds	41
Costello, E. R	Provisional allowance	170
Costello, J. W.	Contingencies and salary	160
"	Provisional allowance	161
Costigan, J. J.	Distribution of seizures	146
"	Salaries	131, 149
"	Travelling and other expenses	150
Côté R	Duty-pay	144
Coughlin, D	Salary	157
Coulter, A.	"	127
Courtney, J. J.	"	130
Courtwright and St. Clair Ferry	Lessee	21
Cousin, T.	Salary	124
Couture, Papineau H.	"	153
Coutts, J. J	"	123
Couvrette, A. A.	"	163
"	Contingencies	167
Cowan, J. A	"	148
Crambrook, B. Co.	Refunds	42
Crevier, J. H.	Salary	131
Cross Point and Campbellton Ferry	Lessee	21
Cruickshanks, J. L.	Salary	158
Cryderman C. W	"	125
Cummiford, F. D.	Duty-pay	143
"	Salary	129
Curran, T. J.	Law costs	151
Currie, W. W	Provisional allowance	139
"	Salary	134
Cutter-Hammer Manfg. Co	Contingencies	171
Cyr, H	Salary	154
Dager, H. J.	Salaries	127, 149
"	Travelling expenses, &c	1 50
Daily Colonist, Victoria	Subscription	154
Daily Examiner, Charlottetown	"	155
Daily Province, Vancouver	"	154
Daily Star	"	155

		Page.
Daily Telegraph and *Witness*, Montreal	Subscription	139
Dalgetty, J	Duty-pay	174
"	Provisional allowance	151
Dalton, M. J	Salary	145
Daly, J. A	Commission	131
Daoust, J. A	Salary	128
Daveluy, J. P	"	141
David, T	"	150
David, J. A	Contingencies	135
Davidson, A. F	"	148
Davidson, J	Duty-pay	143
Davis, J. M	Salary	157
Davis, T.G	Contingencies & salary	124
Davis, T. J	Duty-pay	141
"	Provisional allowance	139
Davis, W. E	" "	139
Davy, E	Salary	159
Dawson, J. A. M	"	153
Dawson, W	Duty-pay	144
"	Salary	123
Deely, F	Provisional allowance	140
"	Salary	135
DeGrosbois, C. B	"	133
Delahay, W	Provisional allowance	149
DelaRonde, R. P	Law costs	151
Delorme, O. C	Salary	159
Delorey, M	Contingencies	150
Dennis, J. L	Duty-pay	143
Dennis, W. A	Salary	163
Departmental Contingencies	Vote for	60
" Salaries Expenditure page 44	Details of	152-153
" "	Vote for	60
Desaulniers, J. E. A	Duty-pay	143
"	Salary	130
Desroches, L	Contingencies	152
Dessaint, Mrs	"	151
Dessert, V	Salary	158
Devlin, F	Refunds	40
Devoir, Le, Montreal	Subscription	155
Diamond Brewery Co. Ltd., The	Refunds	40
Diamond, F. D	Contingencies and salary	157-163
"	"	167
Dillon, D. H	Salary	159
Distilleries	Inspector of	137
Distribution of Seizures		146-147
" " recapitulation of		147
Dixon, H. G. S	Salary	130
Dominion Brewery Co. Ltd, The	Refunds	41
Dominion Express Co	Express charges	138-166
Dominion Eastern Gas & Electric Inspector	Contingencies and salary	165
" Warehousing Co	" "	161, 166, 171
" Western Co. Inspector	"	165
" " "	Salary	169
Donald, Dr. J. T	Food Analyst	150
Dontigny, H	Salary	133
Doyle, B. J	Duty-pay	143
"	Salary	127
Doyle, E. F	"	152
Doyle, S. F	"	134
Doyon, J. A	"	152
Dresser, F	Contingencies and salary	165
"	"	168
"	Provisional allowance	170
Drewry, E. L	Refunds	40
Duchesne, N	Salary	158
Dumaine, J.D	"	132
Dumontier, J. A	Contingencies and salary	137
Dumbrille, R. W	Salary	123
Dumouchel, L	"	130
Dunbar, G. E	"	128
Dunkin, W. H	"	126
Dunlop, C	"	129
Dunn, J. T	"	153
Duplessis, C. Z	"	133
Dupré, H. A	"	153
Durocher, A	Refunds	43

		Page.
Eustan, W. M.	Contingencies and salary	159
Dutton, A. H.	Provisional allowance	161
"	Salary	160
Duty-pay to Officers	Details of	143, 144
" "	Vote for	60
" other than special surveys	"	60
Dwyer, D. T.	Salary	133
Dyson Vinegar Co., Ltd., The	Refunds	37, 38, 39, 40
Eakins, G. G.	Duty-pay	143
"	Salary	128
Earl, R. W.	Provisional allowance	139
"	Salary	134
Eastern Dominion Gas Inspector	Contingencies	165
" "	" and salary	169
Eaton, Chris (estate of)	Refunds	41
Echo des Bois Francs, L', Victoriaville	Subscription	155
Edmonton Brewing & Malting Co., Ltd., The	Refunds	37, 38, 39
" Electric Light District	Contingencies and salary	168
" Gas District	"	165
Edmonton Journal	Subscription	154
Edmonton, R. W.	Provisional allowance	139
Edmundston and Main Ferry	Lessee	21
Edwards, W. C. & Co.	Contingencies	161
Egener, A.	Duty-pay	143
"	Salary	123
Electric Light Expenditures, pages 58, 59	Details of	171
" Export and Power licenses	Monthly deposits	24 to 33
" Inspection, Contingencies	Vote for	60
" "	Districts in account with revenue	56-57
" " Revenue	Stamps revenue	45
" " "	Monthly deposits	24 to 33
" " Salaries	Vote for	60
" Provisional Allowance	"	60
Electric Standard of Laboratory	Monthly deposits	24 to 33
Eimer & Amend	Contingencies	151
Elk Valley Brewing Co., The	Refunds	42
Elliott, T. H.	Salary	127
Elliot, W. J.	Duty-pay	141
"	Salary	123
Ellis, Dr. W. H.	Contingencies	150
Enterprise Brewing Co., Ltd., The	Refunds	42
Equity, The	Contingencies	148
Esmonde Manig, Co.	"	151
Etoile du Nord, L', Joliette	Subscription	155
Ethier, J. P.	Salary	154
Evangeline, L', Moncton	Subscription	154
Evans, C. J.	Salary	152
Evans, G. T.	Contingencies and salary	137
Evans, T. W. W.	Law costs	151
Evenement, L', Quebec	Subscription	155
Eveil, L, Sorel	"	155
Evening Citizen, Ottawa	"	154
Evening Journal, Ottawa	"	154
Evening Mail, Halifax	"	154
Evening Telegram, Toronto	"	154
Excise Contingencies	Vote for	60
" " on account of stamps	"	60
" Expeditures, pages 10 to 13	Details of	138
" General expenditures	"	4-5
" Revenue	"	6 to 9
" " Comparative statement showing increase or decrease for 1912-13 and 1913-14	"	34-35
" "	Monthly deposits	24 to 33
"	Refunds	36 to 43
" Salaries	Vote for	60
" Seizures	Monthly deposits	24 to 33
" Statistics (Appendix "A")	"	63 to 121
Expenditures, Adulteration of Food, page 16	Details of	150 to 151
" Departmental, page 44	"	154 to 155
" Details of (Appendix "B")	"	122
" Electric Light Inspection, pages 58-59	Details of	171
" Excise, pages 10 to 13	"	138
" Gas Inspection, pages 54-55	"	166
" General statement	"	4-5
" Sundry minor, page 19	Details of	148
" Weights and Measures, pages 49-50	"	161
Export of Electric Power	Vote for	60
"	Contingencies	148

		PAGE.
Express, The, Woodstock	Subscription	155
Fagan, Dr. C. J	Food analyst	150
Fahey, E	Salary	124
Fair, T. J. & Co., Ltd	Refunds	43
Fairley, W	Duty-pay	144
"	Salary	122
Falconer, J. E	Duty-pay	143
"	Salary	129
Falconer R. H	"	128
Fallowdown, W. A	"	158
Farmer, R. C	"	133
Farquharson & Granger	Refunds	39, 41
Farnworth, F. A	Salary	124
Fassett and St. Thomas d'Alfred	Lessee	21
Fegan, P. J	Provisional allowance	139
"	Salary	135
Ferguson, J. C	Salaries	133, 149
"	Travelling and other expenses	150
Feik, L	Duty-pay	143
"	Salary	123
Fernie Fort Steel Brewing Co., The	Refunds	42
Ferries	Monthly deposits	24 to 33
Ferry Licenses Revenue	" "	21
Fertilizers—Fees and Licenses	" "	24 to 33
Fiddes, J	Salary	124
Fidler, H	Provisional allowance	139
"	Salary	135
Fielding, L. G	"	128
Filteau, J. R	"	132
Findlay, R	"	157
Fisher, John	Refunds	40
Fitzgerald, E. W	Salary	157
Fitzpatrick, W. J	"	133
Fletcher, R. W	Contingencies & salary	135
"	Provisional allowance	139
Flody, E	Distribution of seizures	146
Food Adulteration, Expenditures, page 15	Details of	150–151
"	Vote for	60
Forest, E. R	Salary	130
Forselmer, L	Refunds	42
Forster, E. L. C	Salary	152
Forsyth, D. F	Provisional allowance	139
"	Salary	134
Fort Erie and Buffalo Ferry	Lessee	21
Fort William Electric District	Contingencies	167
Fortin, G	Law costs	150
Forward, C. C	Salary	152
Foster, H	"	124
Foucar, H	Provisional allowance	139
Fournier, L. A	Contingencies and salary	159
Fowler, G	Salary	152
Fowlie, E. A	Commission	141
Fox, J. D	Salary	130
Fox, T	"	125
Francœur, A	"	132
Frankland, H. R	Contingencies and salary	127
"	Distribution of seizures	146
Fraser, H	Contingencies & salary	167
Fraser, P	" "	134
Fraser Macdonald & Rugg	Law costs	138
Fredericton Gas district	Salary	164
Freeland, A	Contingencies and salaries	125
Freemason, Toronto	Subscription	155
Free Press, London	"	154
Free Press, The Ottawa	"	154
Fretz, Ltd	Refunds	43
Fry, J	Salary	129
Frizell, W	"	124
Frontenac Breweries Ltd	Refunds	39–40
Furlong, C. J	Salary	152
Fyfes, G. D	"	161
Gallagher, T	Contingencies and salary	157
Gallenkamp, A. & Co	" "	138
Gallipeau, J. B. N	Salary	158
Gamache, J. N	"	129

		PAGE.
Gariépy, L. N	Duty-pay	143
"	Salary	129
Gas Inspection—Contingencies	Vote for	60
" Expenditures, pages 52 to 55.	Details of	166
" Inspection District in account with revenue		52-53
" Provisional allowance	Vote for	60
" Revenue	Monthly deposits	24 to 33
" Salaries	Vote for	60
" Stamps	Distributor's account	52-53
" "	Revenue	45
Gauthier, W	Duty-pay	144
Gauvin, E	"	144
"	Salary	132
Gazette, Montreal	Subscription	155
Geldart, O. A	Salary	133
General Electric Light Contingencies		171
" Excise Contingencies		138
" Expenditure Account		4-5
" Gas Contingencies		166
" Revenue Account		3
" Weights and Measures Contingencies		161
George, J	Salary	125
Gerald, Charles	Duty-pay	143
"	Salary	127
Gerald, W. H	Contingencies	138
"	Duty-pay	143
"	Salary	123, 126
German Post	Contingencies	148
Gervais, J. A	Salary	131
Gervais, J. H	"	152
Gibson, C	Provisional allowance	161
"	Salary	160
Gibson, J. V	Provisional allowance	140
Gilbert, A	Salary	132
Gilhuly, R. H	Commission	141
Gillies, A. L	Salary	128
Gilly, W. F	Provisional allowance	161
"	Salary	159
Gilpin, R. R	"	136
Girard, I	"	124
Girdwood, Dr. G. P	Contingencies	151
Glass, J. J	Commission	141
Globe, Toronto	Subscription	155
Golden Lion Brewery Co., Ltd	Refunds	41
Gooderham & Worts, Ltd	Contingencies	138, 151
"	Refunds	41
Goodhue, M. L. E. B	Salary	152
Gorman, A. M	"	133
Gosnell, T. S	Contingencies and salary	134
Gosselin, B	Salary	152
Goudie, D. A	"	135
"	Provisional allowance	139
Gould, A. L	Contingencies	171
Gow, J. E	" and salary	137
Grace, A. B	Commission	141
"	Salary	136
Graham, A. L	Duty-pay	143
"	Salary	127
Graham, W. J	Contingencies and salary	125
"	Salary	164
Graham, W. T	"	127
Grain Growers' Guide Winnipeg	Subscription	154
Grand Trunk Ry. Co	Freight	166
Grant, C. D	Provisional Allowance	161
"	Salary	160
Grant, H. H	Contingencies and salary	133
Granton, C	Duty-pay	143
"	Salary	126
Grant's Spring Brewery Co., Ltd	Refunds	41
Graveline, D. P	Duty-pay	144
"	Salary	131
Gray, R. S	Duty-pay	143
"	Provisional allowance	140
"	Salary	135
Gray, W. B	Provisional allowance	139
Graydon & Graydon	Contingencies	148, 150

		Page
Great North Western Telegraph Co. of Can., The	Contingencies	154
Greenwood, J. E. B	Provisional allowance	139
Greig, J. T	" "	161
Greig, W. G	Salary	134
"	Provisional allowance	139
Grenier, A. W	Law costs	138
Griffin, P. F	Salary	123
Griffith, M. L	"	152
Grignon, Eug	"	154
Grigor, R. W	Provisional allowance	140
"	Salary	135
Grimason, T.	Contingencies and salary	124
Guarantee premium paid to different companies		172
Guelph Excise Division	Contingencies and salaries	122
Guelph Herald, The	Subscription	154
Guerney Scales Co	Contingencies	138
Guimond, Mrs U	"	151, 161
Hacker, A. N	Salary	164
Hagerty, B	"	152
Halifax Breweries, Ltd	Refunds	39, 41
" Electric District	Contingencies	168
" Excise Division	" and salaries	133
" Gas District	" "	165
" *Herald*	Subscription	154
" Weights and Measures Division	Contingencies and salary	159
Hall, W. H	Salary	128
Halley, W. H	Distribution of seizures	146
Halliday, W. A	Salary	152
Halliwell, H. T	Commission	141
Hambly, S. E	Salary	135
Hamilton, Jos	Refunds	41
Hamilton, R	Contingencies	168
"	" and salaries	165
"	Provisional allowance	170
Hamilton, Brewing Association, Ltd., The	Refunds	41
" Electric Light District	Contingencies	167
" Excise Division	" and salaries	123
" Gas District	" "	163
" *Herald*	Subscription	154
" Weights and Measures Division	Contingencies and salaries	157
Hammond, T. W	Provisional allowance	139
"	Salary	134
Hanley, A	"	124
Hanlon, J. R	"	123
Harris, W. H	Provisional allowance	161
"	Salary	160
Hart, S. N	Provisional allowance	170
"	Salary	168
Hartinger, F	Refunds	42
Harwood, J. O. A	Salary	130
Hayes, F. G	Provisional allowance	139
Hayhurst, T. H	Salary	123
Hayward, A. C	Provisional allowance	161
"	Salary	160
Hébert, C. D	Contingencies and salary	133
Hébert, J. A	Salary	158
Helliwel, H. M	Duty-pay	143
"	Salary	128
Henderson, H	Refunds	42
Henderson, G. D	Salary	123
Henry, James	Refunds	43
Herald, The Halifax	Subscription	154
" Hamilton	"	154
" Montreal	"	155
Hersz & Tiede	Refunds	41
Hesson, C. A	Contingencies and salary	127
Hicks, W. H	Salary	124, 127
Higman, O., Sr	Contingencies	169
"	Salary	153
Higman, O. Jr	Contingencies	165
"	" and salary	169
"	Provisional allowance	170
Himsworth, W	Contingencies	138, 151, 154, 161, 166, 171
"	Salary	152
Hinchey, E. H	Contingencies and salary	157
Hiram Walker & Sons, Ltd	Refunds	41

SESSIONAL PAPER No. 12

		Pages.
Hiscott, J. O	Salary	123
Hodgins, G. C	"	157
Hodson, F. H	Commission	141
Hoechen & Wentzler Brewing Co., Ltd., The	Refunds	37, 38, 39, 40, 41
Hogan, James	Salaries	124, 149
"	Travelling and other expenses	150
Holliday, W. R	Refunds	42
Hood, H	Provisional allowance	170
"	Salary	165
Howard, A. L. Co	Refunds	36
Howell, Thomas	Provisional allowance	140
"	Salary	135
Howie, A	Duty-pay	143
"	Salary	123
Howson, G. H	"	157
Hubbley, H. H	"	133
Hudon, M. L. E	"	136
Huether, J. C	Refunds	41
Huggett, A. P	Provisional allowance	140
"	Salary	136
Hughes, H	"	159
Hughes, P. A	"	152
Hughes, R. A	Contingencies and salary	157
Hull Ferry (Old Lease)	Lessee	21
Hunter, L. B	Contingencies and salary	168
Hunter, W. M	Provisional allowance	170
Hurst, L. B	Commission	143
"	Salary	127
Iler, B	Contingencies and salary	122
Imperial Brewing Co	Refunds	42
Imperial Tobacco Co. of Canada, Ltd	"	43
Inland Revenue Dept. Expenditures, page 44	Details of	152 to 156
" " "	Number of persons employed in	174 to 178
Inspector of Bonded Factories		137
" Breweries and Malt Houses		137
" Distilleries		137
" Tobacco Factories		137
Inspectors of Excise Districts		137
Intelligencer, The Belleville	Subscription	154
International Bureau of Weights and Measures	Vote for	60
" " "	Contribution to	162
" Electro-Technical Commission	Vote for	60
" Instrument Co	Contingencies	151
Irion, A. L	Refunds	41
Ironside, E. S	Commission	141
Ivey, W. J	Provisional allowance	139
"	Salary	135
Jackson, H. B	Commission	141
James, F. C	Salary	133
Jameson, S. B	"	135
"	Provisional allowance	139
Jamieson, J. F	" "	139
Jamieson, R. C	Duty-pay	143
"	Salary	127
Jeffrey, A. J	"	127
Jephson, J	Provisional allowance	140
"	Salary	136
Johnson, G	Provisional allowance	140
Johnson, J. D	Provisional allowance	159
Johnson, J. J	Duty-pay	143
"	Salary	125
Johnston, E. J. A	"	128
Johnston, C. W	Provisional allowance	161
"	Salary	160
Johnston, H. J	"	127
Johnstone, S. G	"	163
Joliette Excise Division	Contingencies and salaries	129
Jones, A	Duty-pay	143
"	Salary	128
Jones, B. B	Contingencies	165
"	Provisional allowance	170
"	Salary	168
Jones, R	Contingencies and salary	136
"	Provisional allowance	140
Jones, Siméon	Refunds	41
Jones, Yarnell & Co., London, Eng	Subscription	155

		Page.
Joubert, P. E. C	Salary	131
Joughin, W. C	Provisional allowance	139
Journal, Le, Waterloo	Subscription	155
Journal of Gas Lighting	"	155
Julian Sole Leather Goods Co., Ltd. The	Contingencies	151
Kakabecka Falls Brewing Co., Ltd., The	Refunds	40
Kavanagh, A. J	Commission	141
Kearney, D. J	Salaries	130, 149
"	Travelling Expenses, &c	150
Keay, W. S	Provisional allowance	140
"	Salary	135
Keer, John	Provisional allowance	161
"	Salary	160
Keith, D	Refunds	41
Keliber, J. T	Salary	154
Kelley, J. T	Distribution of seizures	147
Kempt, D. C	Refunds	41
Keog, P. M	Duty-pay	143
"	Salary	129
Kerrigan, J	Refunds	42
Kidd, W. J	"	43
Kidd, W. J	Law cost	151
King, R. M	Salary	133
King's Printer	Printing, &c	154
Kingston Excise Division	Contingencies and salaries	124
" Weights and Measures	" "	157
Kinsman, E. A	Salary	167
Kirk, J. T	Commission	141
Kirkpatrick, H. J	Salary	123
Kitto, W. V	"	152
Knowles, Charles	"	158
Kormann, B., Ltd, The	Refunds	41
Kyle, W. P	Contingencies	165
"	" and salary	168
"	Provisional allowance	170
Kylie, R	Salary	157
Labatt, John	Refunds	41
Labelle, V	Salary	154
Labor News, The, Hamilton	Subscription	154
Ladouceur, A	Salary	125
Ladouceur, Jos	"	153
Laflamme, J. L. K	"	152
Lafleur, Mrs. E	Contingencies	151
Laframboise, L	"	145, 148, 151
Laidman, R. H	Salary	157
Lakewood Brewery Co	Refunds	40
Lallier, L	Salary	154
Lally, J. E	Duty-pay	143
"	Salary	122
Lambe, A. B	Contingencies	148, 165, 171
"	" and salary	169
Lambert, J. A	Salary	130
Lamoureux, J. A	"	131
Lane, T. M	Duty-pay	143
"	Salary	128
Langelier, F	"	132
Langlois, Jules	Law costs	138
Laporte, G	Salary	125
Larivière, A. C	Provisional allowance	139
"	Salaries	134, 149
"	Travelling expenses, &c	150
Larue, A	Salary	131
Lasalle, B	Bill stamps	17
Laurier, J. L	Salary	130
Lavallée, V. P	Contingencies	150
Law, A. L	Salary	133
Law costs	Expenditures	138
Law, Stamps	Distributor's account	18
"	Monthly deposits	24 to 33
"	Revenue	45
Lawless, E. M	Salary	152
Lawlor, H	Contingencies and salary	137
Lawlor, J. J	Salary	123
Learoyd, D. R	"	152
Lebel, J. A	"	158
Leblanc, Brossard, Forest & Nantel	Law costs	138

		Page.
Leblanc, O. J	Salary	159
Leckie, T. L	"	153
Lee, Edward	"	124
Lefebvre, A	"	130
Lefèbvre, F	Law costs	151
Lefèbvre, M	Salary	154
Leggatt, A. E	"	129
Leishman, A	Provisional allowance	140
Lemire, J. H	Salary	159
Lemoine, Alph	"	152
Lemoine, J	"	131
Lesperance, J. A	Distribution of seizures	146
"	Salary	131
Lessard, A	Contingencies and salary	159
Lethbridge Brewing & Malting Co., Ltd., The	Refunds	37, 38, 39, 40
Levasseur, N	Contingencies	167
"	" and salary	164
Lewis, H. B	Salary	152
Lewison, E. R	Contingencies	151
Libbey, J. J	Provisional allowance	139
Licenses—Excise	Revenue from	22-23
Liddle, D	Salary	157
Limerick, A. K	"	159
Little, E	Contingencies and salaries	167
London Electric Light District	"	167
" Excise Division	" and salaries	124
" Gas District	" "	163
" Weights and Measures	" "	157
Long, W. H. A	Provisional allowance	139
"	Salary	134
Longtin, H	"	130
Lothar, R	Refunds	41
Love, G. G	Salary	129
Lowe, W. C	Provisional allowance	139
Lowell, E	Salary	163
Luissier & Guimond	Law costs	151
Luth, W. H	Refunds	42
Lutz, Herbert	Contingencies	167
"	Salary & Contingencies	163
Lymans, Ltd	Contingencies	138, 151, 166, 171
Lyon, A. V	Salary	152
Lyons, E	Duty-pay	143
"	Salary	129
Macdonald, A. A	Law-costs	151
Macdonald, A. B	Duty-pay	143
"	Salary	132
Macdonald, A. J	"	134
Macdonald, G	Provisional allowance	140
"	Salary	136
Macdonald, J. F	Salaries	160, 168
MacGregor, D. N	Provisional allowance	139
"	Salary	135
MacKay, J. C	"	128
MacKenzie, J. H	"	127
MacKinnon, J. W	Provisional allowance	161
"	Salary	160
MacLean, C. E	"	157
Macleod, N. T	Provisional allowance	161
MacMartin, A	Duty-pay	144
"	Salary	125
Macpherson, J	Commission	141
Mail and Empire, The	Subscription	154
Mainville, C. P	Contingencies and salary	129
Male, Thomas	Salary	163
Malt Houses and Breweries, Inspector of		137
" License fees		22-23
" Licenses issued, quantity produced &c		76-77
" Quantity taken for consumption		22-23
" Returns of manufacturers for the year 1913-14		82-83
" " comparative statement for 1912-13 and 1913-14		76-77
" Revenue		6 to 8
" " comparative statament showing increase or decrease for 1912-13 and 1913-14		34-35
" " Refunds		37 to 42
" Warehouse returns		78-79
" " comparative statement for 1912-13 and 1913-14		80-81

PAGE.

Malt Liquor and Brewers' licenses 82-83
" License fees 22-23
" Licenses issued, material used and quantity produced 82-83
" Quantity taken for consumption 22-23
" Returns of manufacturers for the year 1913-14 82
" " comparative statement for 1912-13 and 1913-14 83
" Revenue ..... 6 to 8
" " Comparative statement showing increase or decrease for 1912-13 & 1913-14 34-35
Manitoba Excise District Inspection ..... Contingencies and salary 137
Manitoba, Le, St. Boniface ..... Subscription 154
Mann, W. ..... Salary 164
Manufactures in Bond 112
" " License fees 22-23
" " Licenses issued, material used, and quantity produced 112-113
" " Quantity taken for consumption 22-23
" " Returns of Manufactures 112-113
" " " " Comparative statement 1913-14 114-115
" " Revenue ..... 6 to 8
" " " Comparative statement showing increase or decrease for 1912-13 and 1913-14 34-35
" " Warehouse returns 116-117
" " " " Comparative statement for 1913-14 118-119
Mantha, J. A ..... Salary 131
Maranda, N. A ..... " 131
Marchand & Donneley ..... Contingencies 171
Marin, L. H ..... Duty-pay 144
" ..... Salary 131
Marion, H. R ..... " 128
Markley, A. W. R ..... Provisional allowance 139
" ..... Salaries 135-149
" ..... Travelling expenses, &c 150
Marsh, R. J. F ..... Commission 141
Martel Louis ..... " 141
Martin, N ..... Duty-pay 143
" ..... Salary 123
Martineau, O. E. J ..... " 131
Mason, F ..... Duty-pay 143
" ..... Salary 125
Mather, A. P ..... " 128
Mathews, E. D. K ..... " 153
Maurice, E ..... " 125
Meadows & Co ..... Contingencies 171
Meighen, R. S ..... Salary 125
Melville, T. R ..... Contingencies and salary 126
Mercier, C. A ..... Salary 132
Methylated Spirits ..... Monthly deposits 24, to33
" " Quantity of raw material on hand at beginning and end of the years 1912-13 and 1913-14, material used and quantity produced 121
" " Quantity on hand at beginning and end of the year 121
" " Quantity brought in, sold and otherwise accounted for during the year 1913-14 121
" " Statement showing revenue and expenditures 61-62
" " ..... Vote for 60
Miller, J. E ..... Contingencies and salary 137
Miller, L ..... Provisional allowance 139
Miller, R. M ..... Salary 125
Miller, W. F ..... Contingencies and salary 123
Millier, E ..... Duty-pay 144
" ..... Salary 131
Milliken, E ..... " 127
Mills, A. E ..... " 163
Milot, J. F ..... Duty-pay 143
" ..... Salary 130
Mineur, Le Thetford Mines ..... Subscription 155
Minister of Inland Revenue ..... Salary 152
" " ..... Vote for 60
Minor expenditures, page 20 ..... Details of 148
" " ..... Vote for 60
Mitchell, J. L ..... Salary 123
Molson, H ..... Refunds 41
Mongeau, V ..... " 41
Moniteur Acadien, Shediac ..... Subscription 154
Moniteur du Commerce, Montreal ..... " 155
Montebello and Alfred Ferry ..... Lessee 21
Montgomery, W. H ..... Salary 124
Montreal Electric Light Inspection District ..... Contingencies 167
" Excise Division ..... " and salaries 130

		Page:
Montreal Excise Division	Distribution of seizures	146
" Gas District	Contingencies and salaries	164
Montreal Star	Subscription	155
Montreal Weights and Measures Division	Contingencies and salaries	158
Moore, T.	Salary	134
Moose-jaw Brewing and Malting Co., Ltd.	Refunds	41
" Excise Division	Contingencies and salaries	135
" "	Distribution of seizures	147
Morforton, E. R.	Salary	129
Morgan, E. J.	Provisional allowance	140
"	Salary	136
Morin, J. P.	Contingencies and salary	158
Morris, T. H.	Duty-pay	144
"	Provisional allowance	139
"	Salary	134
Morse, C.	Law stamps	18
Mountain Spring Brewing Co., Ltd.	Refunds	37, 38, 39, 40
Moynahan, J.	Duty-pay	144
"	Salary	129
Mueller, Aug.	Refunds	42
Muir, Jephson, Adams & Browlee	Contingencies	161
Munn & Co., New York	Subscription	155
Munro, H. D.	Salaries	133, 165
Munro, H. P.	Commission	141
Murdock, Jas.	Salary	158
Murphy, F. C.	"	163
Murray, D.	Duty-pay	143
"	Salary	126, 131
Murray & McKinnon	Law costs	150
McArthur, J. H.	Provisional allowance	139
"	Salary	134
McCarthy, T. C.	Refunds	40
McConvey, J. J.	Salary and contingencies	158
McCullough, A.	Salary	152
McCutcheon, H.	"	135
McDonald, J.	Contingencies and salary	157
McDonald, J. F.	Commission	141
"	Salary	136
McDonnell & Costello	Law costs	148, 151
McDougall, J. C.	Provisional allowance	161
McEachern, C. A.	Salary	158
McFee, A. C.	Duty-pay	143
"	Salary	122
McGill, A.	Contingencies and travelling expenses, &c.	150
"	Salary	152
McGowan, J.	"	133
McGowan, W. J. H.	Provisional allowance	139
McGuire, L. J.	Salary	130
McGuire, T.	"	125
McIntosh, W.	Provisional allowance	161
McIver, W. E.	Law costs	151
McKay, R.	Provisional allowance	161
"	Salary	159
McKeen, E. T.	"	134
McKell, M. E. E.	"	153
McKenty, J.	Provisional allowance	139
McKenzie, Prof. J. J.	Contingencies	151
McKibbon, W. S.	Provisional allowance	139
McKinley & Northwood	Contingencies	138
McLean, D. J.	Provisional allowance	161
"	Salary	160
McLennan, J. R.	Contingencies	151
McLeod, Col. J. F.	Bill stamps account	17
McLeod, N. T.	Salary	160
McMillan, D. H.	Commission	141
McNally, E.	Duty-pay	143
"	Salary	126
McNaughton, J. C.	"	125
McNiven, D. J.	Provisional allowance	139
"	Salary	134
McPherson, E. A.	Duty-pay	143
"	Salary	126
McPhillips & Wood	Contingencies	166
McSpadden, M.	Provisional allowance	140
McSween, James	Contingencies and salary	128

		Page.
Nantel, W. B., The Honourable	Salary	152
"	Travelling expenses	154
Nash, A. F.	Contingencies	167
"	" and salary	163
National Breweries Ltd., The	Refunds	37,38,39,40,41,42
Nationaliste Le, Montreal	Subscription	155
Neil James	Salary	129
Nelson Brewing Co., Ltd	Refunds	42
Nelson, Nels	"	37,38,39,42
Nelson Weights and Measures Division	Contingencies and salary	160
New Brunswick Excise Districts Inspector	" "	137
New Ontario Brewing Co., Ltd., The	Refunds	42
Newsome, J	Salary	122
New Westminster Gas District	"	165
News The, Toronto	Subscription	155
Niagara and Youngstown Ferry	Lessee	21
Nichol, F. A	Provisional allowance	139
"	Salary	135
Niven, T. D	Duty-pay	144
"	Salary	129
Noonan, H. T	Contingencies and salary	125
Noonan, J. M	Salary	125
Normandin, G	Duty-pay	143
"	Salary	129
North West Review, Winnipeg	Subscription	151
Nouvelle France, La, Quebec	"	155
Nuruh, T	Commission	141
O'Brien, E. C	Salary	123
O'Brien, J	"	123
O'Brien, J. F	Duty-pay	143
"	Salary	123
O'Brien, W	Contingencies and salary	159
O'Donnell, J	Salary	124
O'Donnell, M. J	"	131
O'Donohue, M. J	Contingencies and salary	122
Oertling, L	" "	138
Officer's salary	Refunds	43
O'Flaherty, M. J	Salary	164
Ogden, G. J	"	163
O'Keefe Brewing Co., Ltd. The	Refunds	37, 41
Oland, J. C	"	40
Oland & Son	"	41
O'Leary, T. J	Duty-pay	143
"	Salary	128
Oliver, J. T	"	128
Olivier, A	"	167
Olivier, H	Duty-pay	143
"	Salary	129
Olivier, J. A	Duty-pay	144
"	Salary	129
O'Neil, G	Duty-pay	144
"	Salary	129
Ontario District Inspectors	Contingencies and salaries	137
" Electric District	Salary	167
Orr, H. N	Salaries	122, 163
Ostiguy, L. R. (B.A.)	Salary	153
O'Sullivan, D	Provisional allowance	140
"	Salaries	136, 149
"	Travelling and other expenses	150
Other receipts—Revenue—Comparative statement showing monthly increase or decrease for 1912 13 and 1913 14		34–35
" " from		7 to 9
Ottawa Electric Co	Contingencies	161, 171
" Electric Light District	"	167
" Excise Division	" and salaries	125
" Gas District	" "	163
" Weights and Measures Division	" "	157
Ouellet Street Ferry	Lessee	21
Owen Sound, Excise Division	Contingencies and salaries	125
Pankhurst, G. F	Provisional allowance	170
"	Salary	165
Panneton, G. E	"	131
Panton, A. M	Provisional allowance	139
Pape, James	Salary	163
Parent, F	"	153
Parke, Davis & Co	Refunds	36

		PAGE.
Parker, Thomas	Salaries	149, 160
"	Provisional allowance	161
"	Travelling expenses, &c	150
Parkinson, E. B	Contingencies and salary	135
"	Distribution of seizures	147
"	Provisional allowance	140
Patent Medicines—Registration fees	Monthly deposits	24 to 33
" "	Revenue of	19
Paterson, C. E. A	Salary	130
Patrie, La, Montreal	Subscription	155
Patriote, Le, Duck Lake, Sask	"	155
Pays, Le, Montreal	"	155
Pelletier, A	Travelling expenses	150
Pembroke and Allumette Island Ferry (Old lease)		21
" " (New lease)		21
Pembroke Standard, The	Contingencies	148
Persons employed by Inland Revenue Dept	Number of	174 to 178
Perth Excise Division	Contingencies and salaries	125
Peterborough Excise Division	" "	126
Petroleum, Inspection Fees, Comparative statement for 1912-13 and 1913-14		111
" " Returns of Petroleum and Naptha inspected during 1913-14		111
People Le, Montmagny	Subscription	155
Phœnix Brewing Co., Ltd, The	Refunds	42
Pictou Excise Division	Contingencies and salaries	134
" Weights and Measures Division	" "	159
Pierce, A. H	Provisional allowance	139
Pierce, H. A. P	Commission	141, 142
Pilsener Brewing Co., Ltd, The	Refunds	41
Pittsburg Motor Co	Contingencies	171
Planet, The, Chatham	Subscription	154
Pleasance, W	Salary	124
Poitras, W	Distribution of seizures	146
"	Duty-pay	144
"	Salary	131
Polley, W. H	Commission	141
Popham, F. H	Salary	153
Port Arthur Excise Division	Contingencies and salaries	126
Porter, A. R	Commission	141
Porter, N	"	141
Postmaster Ottawa	Contingencies	151
Post Office Department	Bill stamps account	17
Powell, J. B	Contingencies and salaries	122
"	Salary	163
Power, J. F	Provisional allowance	140
"	Salaries	135, 149
"	Travelling expenses, &c	150
Power, O. S	Provisional allowance	170
"	Salary	168
Préfontaine, F. H	"	158
Prescott and Ogdensburg Ferry	Lessee	21
Prescott Excise Division	Contingencies and salaries	126
Presse La, Montreal	Subscription	155
Preventive Service	General statement of expenditures and salaries	14
"	Vote for	60
Prévost, Jos	Salary	131
Prévost, J. O	"	131
Pritchard Andrews Co. Ltd, The	Contingencies	138, 151, 161, 166
Progrès du Golfe, Rimouski	Subscription	155
Progrès du Saguenay	"	155
Proprietary or Patent Medicine Act	Contingencies	148
" "	Vote for	60
Provisional allowance	Distribution of	140, 161, 170
"	Vote for	60
Provost, J. E	Contingencies and salaries	167
Quain, R	Salary	152
Quebec Electic Light Inspection District	Contingencies	167
" Excise District Inspector	" and salaries	137
" " Division	" "	131
" " "	Distribution of seizures	146
" " Gas District	Contingencies and salaries	164
" Weights and Measures Division	" "	158
Queenston and Lewiston Ferry	Lessee	21
Quinn, J. D	Duty-pay	144
"	Salary	132

		Page.
Quinn, T.	Provisional allowance	140
Rainey, G. G.	"	139
Rainey, G. Y.	Salary	135
Rainey River Ferry	Lessee	21
Rattiement, Le, St Joseph, Beauce	Subscription	155
Ratchford, C. E.	Commission	141
Rau, Mary	Refunds	39
Raw leaf tobacco taken for consumption		22-23
Ray, Jas. A.	Refunds	40
Ready's Breweries, Ltd	"	41
Reesor, M. W.	Salary	163
Refunds of Revenue		36 to 43
Regina Brewing Co., Ltd	Refunds	41
Regina Electric Light District	Contingencies & Salaries	168
Registrar of the Exchequer Court	"	138
Reinhart, L.	Refunds	41
Relihan, Jas.	Salary	127
Renahan, M. J.	"	163
Renaud, G.	Contingencies	138
Renaud, A. H.	Salary	130
Renault, L.	Contingencies	159
Rennie, G.	" and salaries	127
"	Salary	163
Renson, R. S.	Law costs	151
Revenue	Recapitulation for the year 1913-14	
" Adulteration of food	" " "	32-33
" Casual Revenue	" " "	
" Commercial Feeding Stuffs	" " "	
" Electric Light Export Power Licenses	" " "	
" " Inspection	" " "	
" Electric Standard of Laboratory	" " "	
" Excise	" " "	
" " Seizures	" " "	
" Ferries	" " "	
" Fertilizers' Fees	" " "	
" Gas Inspection	" " "	
" Law stamps	" " "	
" Methylated spirits	" " "	
" Patent Medicines Registration Fees	" " "	
" " Fines	" " "	
" " Stamps	" " "	
" Testing Milk Glasses	" " "	
" Weights and Measures Inspection	" " "	
" " " Seizures	" " "	
Revue Canadienne, La, Montréal	Subscription	155
Revue Franco Américaine, La, Montréal	"	155
Richard, J. B. T.	Salary	129
Richards, D. H.	Provisional allowance	139
Richardson, W.	Provisional allowance	139
"	Salary	135
Rickey, J. A.	Travelling expenses, &c.	150
"	Salary	152
Ridgman, A. H.	Provisional allowance	140
"	Salary	136
Rigney, T. J.	Law costs	150
Rioual, Y.	Salary	153
Ritchie, H.	"	127
Robert, A.	"	152
Robillard, G. A.	"	131
Robins, S. W.	"	157
Robinson, J. T.	Salaries	124, 157
Robinson, W.	Provisional allowance	140
Robitaille, G. W.	Contingencies and salary	167
Roche, H. G.	" "	163
Roche, W. J.	Salary	163
Rochon, G.	Law costs	151
Rockliffe and Gatineau Ferry	Lessee	21
Roe, E. A.	Contingencies and salary	168
"	Provisional allowance	170
Roper, W. P.	Contingencies	166
Rork, T.	Salaries	126, 163
Ross, H. E.	Salary	135
"	Provisional allowance	139
Ross, W. A.	Provisional allowance	170
"	Salary	165
Ross, W. T.	Commission	141

		Page.
Rouleau, C. E	Salary	131
Rouleau, J. C	Salaries	132, 149
"	Travelling expenses, etc	150
Rousseau, E. H	Salary	132
Roux, G	"	131
Rowan, W. E	"	125
Roy, C. E	Contingencies and salary	158
Roy, L	Salary	152
Roy, L. G	"	152
Roy, F. X	Contingencies	150
Rudolffe, Professor, D. R	"	148
Sandbain, J. B	Commission	141
Sand Point and Norway Bay	Lessee	21
Sangsters. H. W	Law costs	151
Saskatoon Weights and Measures Division	Contingencies and salaries	160
Saturday Night, The, Toronto	Subscription	154
Saturday Sunset, The, Vancouver	"	157
Saucier, X	Contingencies and salary	139
"	Provisional allowance	151
Sault St. Marie Ferry	Lessee	21
Saunders & Ingram	Law costs	151
Scales, Charlotte	"	138
Scanlan, T. J	Provisional allowance	140
"	Salary	135
Schaeffer & Budenberg Mfg. Co	Contingencies	171
Schofield, J. H	Provisional allowance	139
Schram, R. L. H	Salary	127
Schuler, F. C	"	122
Schwan, V	Refunds	41
Scouler, G. T	Salary	168
"	Provisional allowance	170
Scott, J. O	Contingencies	150
Scullion, W. J	Salary	130
Sealey J. C	Contingencies and salary	157
Seizures, Distribution of		146, 147
Excise, seizures comparative statement showing monthly increase or decrease for 1912-13 and 1913-14		34-35
" Monthly deposits		24 to 33
" Weights and Measures		26, 28, 33
" " Revenue		32-33
Semaine Commerciale, La, Quebec	Subscription	155
Semaine, La, Grand'Mère	"	155
Shanacy, M	Salaries	127, 164
Shaw, A	Provisional allowance	161
Shaw, H. V	Refunds	43
Shaw, J	Provisional allowance	140
"	Salaries	136, 160, 165
Shaw, J. F	Salary	152
Sheppard, C. F	"	154
Sherbrooke Electric Light District	Contingencies	167
" Excise Division	" and salaries	132
" " "	Distribution of seizures	146
" Gas District	Salary	164
" Weights and Measures Division	Contingencies and salaries	159
Shorey, A. B	Duty-pay	143
"	Salary	128
Shurtleff, W. L	Law costs	151
Siemens Co. of Canada, Ltd	Contingencies	171
Silver Spring Brewery, Ltd	Refunds	41
Simmons, R	Salary	131
Simpson, A. F	Contingencies	167
"	" and salaries	132, 164
"	Distribution of seizures	146
Simpson, G	Salary	136
Simpson, W. A	"	127
Skelton, A. R	"	163
Slattery, Thomas	"	157
Sleeman, H. O	Refunds	42
Sloan, J. B	Salary	128
Sloan, W	"	122
Smith, B. H	"	126
Smith, J. C	"	158
Smith, Miss T.	Contingencies	171
Smith, S. & Son, Ltd	"	171
Snowdon, J. W	Duty-pay	143
"	Salary	129
Snuff—Quantity taken for consumption		22-23

		Page.
Sobey, R. E.	Provisional allowance	139
Société de Géographie, Quebec	Subscription	155
Soo Falls Brewing Co., Ltd	Refunds	41
Sorelois, Le, Sorel	Subscription	155
Sparling, J. W.	Provisional allowance	139
"	Salary	134
Spectator, The, Hamilton	Subscription	154
Spence, F. H.	Salary	123
Spicer, H.	Provisional allowance	161
"	Salary	160
Spirits—Distilleries transactions		66-67
" License fees		22-23
" Licenses issued, material used and quantity produced		64 65
" Quantity taken for consumption		22-23
" Returns of manufactures		64-65
" " Comparative statement for 1912-13 and 1913-14		64 65
" Revenue		6 to 8
" " Comparative statement showing monthly increase or decrease for 1912-13 and 1913-14		31-35
" " Refunds		36
" Warehouse Returns		68 to 71
" " Camparative statement		72-73
Sprague, F. W.	Duty-pay	143
"	Salary	122
Stamps—Bill, Distributor's account		17
" Electric Light, Distributer's account		56-57
" " Revenue of		45
" Excise	Refunds	43
" Gas, Distributor's account		52-53
" Law, Revenue of		45
" Weights and Measures Distributor's account		46-47
" " " Revenue of		45
Standard of Empire, The, Toronto	Subscription	155
Standard, The, St. Catharines	"	154
Standard Underground Cable Co., Ltd.	Contingencies	171
Standish, J. G.	Duty-pay	141
"	Salary	122
States Co., The	Contingencies	171
Statistics	Appendix A	62
Steel Eqnipment Co.	Contingencies	161
Stevenson, R.	Refunds	40
Stewart, H. A.	Law costs	151, 161
Stiver, J. L.	Contingencies and salary	163
"	Salary	167
Stokes, R. A.	"	158
Stott, Jas	Contingencies	165
"	" and salary	168
"	Provisional allowance	170
Stratford Excise Division	Contingencies and salaries	127
Sudbury Brewing & Malting Co., Ltd	Refunds	42
Sugg, W. & Co., Ltd.	Contingencies	166
Sundry Minor Expenditures, page 10	Details of	148
Sundry Minor Revenue	General statement of	19
Sutherland, J. W.	Provisional allowance	161
Sutherland, W.	" "	140
"	Salary	136
Sykes, W. J.	"	128
St. Catharines Excise Division	Contingencies and salaries	127
St. Hyacinthe Electric Light District	" and salary	167
" Distillery Co., Ltd., The	Refunds	41
" Excise Division	Contingencies and salaries	132
" Gas District	Salary	164
" Weights and Measures Division	Contingencies and salaries	158
St. John Electric Light District	"	168
" Excise Division	" and salaries	133
" "	Distribution of seizures	146, 147
" Gas District	Salary	164
" *Globe*	Subscription	154
" Weights and Measures Division	Contingencies and salary	159
St. Lawrence Brewery, Ltd	Refunds	140
St. Léonard and Van Buren Ferry	Lessee	21
St. Michel, F. X.	Salary	130
Talbot, J.	Salaries	124, 149
"	Travelling expenses, &c.	150
Taylor, G. T.	Law costs	151
Taylor, G. W.	Salary	152

		Page.
Technical Translation	Vote for	60
Teevens, L. P.	Salary	152
Tellier, J. O.	Duty-pay	144
Templeton, W. A.	Provisional allowance	170
"	Salary	168
Testing Milk Glasses	Monthly deposits	24 to 33
Thérien, E. C.	Duty-pay	144
The 2 Macs	Contingencies	151
Thomas, F. W.	Duty-pay	143
"	Salary	123
Thomas, J. S.	"	157
Thomas, R.	Duty-pay	143
"	Salary	129
Thompson, J. M.	Commission	141
Thornburn, Jas.	Distribution of seizures	147
"	Provisional allowance	140
"	Salary	135
Thornton & Truman	Contingencies	138, 154, 161
Thrasher, W. A.	Salaries	124, 163
Three H. Manfg. Co.	Contingencies	151
Three Rivers, Electrict Light District	" and salary	167
" Excise Division	" and salaries	133
" Weights and Measures Division	" "	159
Thurber, Geo.	Salary	131
Thurston & Boyd	Law costs	150, 161
Tiette, J. A.	"	151
Till, T. M.	Salary	122
Time, The Peterborough	Subscription	154
Tinsley, H. & Co.	Contingencies	171
Toale, J.	" and salary	165
"	"	168
Tobacco Canada Twist, comparative statement of the revenue collected for the years 1912-13 and 1913-14		103
Tobacco Canada Twist, quantity taken for consumption		22-23
" " Statement of revenue collected		103
" Factories, Inspector of		137
" License Fees		22-23
" Manufactured before June 1908, warehouse return for year 1913-14		88
" " " comparative statement of wharehouse returns for years 1912-13 and 1913-14		89
" Other material used in the manufacturing warehouse returns for the year 1913-14		102
" Comparative statement for the year 1913-14		102
" Quantity taken for consumption		22-23
" Raw leaf, warehouse returns for the year 1913-14		98-100
" " " comparative statement for 1912-13 and 1913-14		100-101
" Refunds		43
" Returns of Manufactures for the year 1913-14		84-85
" " comparative statement for the years 1912-13 and 1913-14		86-87
" Revenue		6 to 8
" " Comparative statement showing increase or decrease for 1912-13 and 1913-14		34-35
" Snuff, quantity taken for consumption		22-23
" Stamps	Vote for	60
" Under amended rates of duty, warehouse returns for the year 1913-14		90 to 93
" " Comparative statement for the years 1912-13 and 1913-14		94 to 97
" *World*, Philadelphia	Subscription	155
Tobin, T. S.	Salary	127
Tompkins, P.	"	133
Topley Co., The	Contingencies	151
Toronto Brewing and Malting Co., Ltd.	Refunds	41
" Electric Light District	Contingencies	167
" Excise Division	" and salaries	127
" " "	Distribution of seizures	146
" Gas District	Contingencies and salaries	163, 164
" Weights and measures Division	" "	158
Toronto World	Subscription	155
Toupin, J. A.	Salary	137
Tracy, J. P.	"	124
Treverton, C. B.	"	122
Tribune La, St. Hyacinthe	Subscriptio	155
Trumpour, G.	Salary	152
Trumpour, G. T. T.	"	157
Turpin, Mrs A.	Contingencies	151
Tyson, A. M.	Commission	141
Tytler, J. M.	Salary	124
Uffelmann, A.	Duty-pay	144
"	Salary	123

		Page.
Union Brewing Co., Ltd	Refunds	41
Union Gas Co., Ltd	"	43
United Canada The, Ottawa	Subscription	154
Unsworth, W. W	Law costs	151
Valade, F. X	Analyst	150
Valin, J. A. G	Salary	152
Valin, J. E	"	152
Vancouver Breweries Ltd., The	Refunds	37,38,39,42
" Electric Light District	Contingencies and salaries	168
" Excise Division	" "	135
" " "	Distribution of seizures	147
" Gas District	Contingencies	165
" Weights and Measures	" and salaries	160
Verdier, G	"	154
Vérité, La, Quebec	Subscription	155
Verner, T. H	Provisional allowance	139
"	Salary	134
Victoria Electric Light District	Contingencies	168
" Excise Division	" and salaries	136
" Gas District	"	165
" Phoenix Brewing Co., Ltd	Refunds	39,41
Vincent, J. U	Salary	152
Vinegar	Duty accrued	22-23
" Revenue comparative statement of manufac ures for the years 1912-13 and 1913-14		114-115
" Statement showing number of gallons manu actured in 1913-14		112-113
Waddell, S. J	Salary	133
Walker, J. H	Provisional allowance	139
"	Salary	135
Walkerville and Detroit Ferry	Lessee	21
Walkerville Brewing Co., Ltd	Refunds	38,41
Wallace, R	Provisional allowance	161
"	Salary	160
Walsh, D. J	Duty-pay	143
"	Salary	130
Walsh, W. H	Duty-pay	143
"	Salary	128
Walton, Geo	Contingencies and salary	159
"	Provisional allowance	161
Ward, C	Salary	133
Ward, H. A	Law costs	151
Watson, John	Refunds	40
Watson, V. M	Salary	152
Watt, G	Commission	141
Waugh Richard, J	Contingencies and salaries	149,159
"	Travelling expenses, &c	150
Way, E. O	Contingencies	160
"	Salary	153
Webbe, C. E. A	"	124
Webber, Louis	Provisional allowance	170
"	Salary	165
Week, W. A	Salaries	134,149
"	Travelling expenses, &c	150
Week, The, Victoria	Subscription	154
Weights and Measures	Contingencies, page 161, vote for	60
" "	Revenue account (Old Division)	48
" "	Inspection Division in account with expenditures, page 50, Details of	161
" "	Inspection Divisions in account with revenue	46-47
" "	Monthly deposits	24 to 33
" "	Refunds	43
" "	Salaries, vote for	60
" "	Stamps revenue	45
Weiland, C	Refunds	42
Welch, W. R	Provisional allowance	161
"	Salary "	160
Wells, T	Law costs	150
Western Dominion Gas Inspector	Contingencies	165
Western Electrical Instrument Co	"	171
Westman, Thomas	Salary	152
Westminster Brewery	Refunds	39
Wheatley, A. E	Salary	157
White, H	Commission	141
White, H. E	Salary	159
White, J. B	"	126
Whitehead, J. P	"	124

		Page.
Wilson, D.	Salary	124
Wilson, J. C.	"	158
Wilson, J. E	Contingencies	168
"	Salaries	164
Wilson, H. H.	"	163
Wilson, H. R	Duty-pay	143
"	Salary	122
Wilson, Lytle Badgerow Co., Ltd., The	Refunds	38, 39, 40
Winck, J. C.	Salary	126
Windsor Excise Division	Contingencies and salaries	128
Windsor Tribune, The	Subscription	154
Winnipeg Electric Light District	Contingencies	168
" Excise Division	" and salaries	134
" Gas District	" "	165
" *Telegram*	Subscription	154
" Weights and Measures Division	Contingencies and salaries	159
Wiser, J. P. & Sons	Refunds	40
Withers, S. W.	Salary	165
Wolfenden, W.	Provisional allowance	140
"	Salaries	135, 165, 168
Wood, C. E.	Law costs	151
Wood, C. T.	Provisional allowance	139
"	Salary	135
Wood, J. A.	"	126
Wood, R. E.	Law costs	150
Wood, Stephens	Provisional allowance	161
World, The, Chatham, N.B	Subscription	154
Wright, Alex. & Co., Ltd	Contingencies	166
Wright, A. J.	Refunds	41
Wright, R. J.	Salary	158
Wright, S. E.	"	152
Yetts, R. P.	"	152
Young, J. J.	Duty-pay	143
"	Salary	128
Young, R. E.	"	127
Yukon Electric Light District	"	168
" Excise Division	Contingencies and salary	136
" Weights and Measures Division	" "	160

REPORTS, RETURNS AND STATISTICS

OF THE

INLAND REVENUES

OF THE

DOMINION OF CANADA

FOR THE YEAR ENDED MARCH 31

1914

PART II

WEIGHTS AND MEASURES, GAS AND ELECTRICITY

PRINTED BY ORDER OF PARLIAMENT

OTTAWA
PRINTED BY J. DE L. TACHÉ, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1914

[No. 13—1915]

REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

ON THE

INSPECTION OF WEIGHTS AND MEASURES, GAS AND ELECTRICITY

To the Honourable
The Minister of Inland Revenue.

SIR,—I have the honour to submit herewith my annual report on the inspection of weights and measures, gas and electricity, with the usual statements in connection therewith for the fiscal year ended March 31, 1914.

1. The total revenue collected during the year for the inspection of weights and measures was $113,705.30 as against $100,696.52 collected during the twelve months ended March 31, 1913.

2. The total expenditure was $144,989.97, as against $131,344,71 expended during the year ended March 31, 1913.

3. Appendix "A" gives a summary statement of the receipts and expenditures of each inspection division.

4. In Appendices "B" "C" and "D" will be found a detailed statement of weights, measures and weighing machines presented for verification, verified and rejected during the year. The number of all descriptions may be summarily stated as follows :—

——	Presented.	Verified.	Rejected.	Percentage of Rejections.
Weights, Dominion	67,184	66,846	338	·503
Measures of capacity, Dominion	122,869	122,819	50	·040
Lineal measures	10,169	10,157	12	·118
Balances, equal arms	13,214	13,068	176	1·331
" steelyards	5,200	5,131	69	1·328
" platform scales	48,185	46,639	1,546	3·208
Miscellaneous weights	1,237	1,235	2	·161
" measures of capacity	13,700	13,636	64	·467
" balances	57,000	56,611	389	·682

5. In my last report, I stated that there was a growing demand for more efficient inspection. The statistics this year show that a slight improvement has been made.

For the year ending March 31, 1913, the percentage of rejections for all weighing machines was 1·28% — this has increased to 1·70% for the year ending March 31, 1914. This is only a small improvement but is in the right direction. The Division of Hamilton shows to advantage in this regard with 5% of rejections, St. Hyacinthe coming next with 4%.

Some improvement is also shown in efficiency, for, notwithstanding that many salary increases have been granted, the earnings of the Service represent about 78% of its total expenditure as against 77% last year.

I must also refer to the work done by the W. & M. Standards Branch in the verification of Milk Testing Glassware. During the year ending March 31, 1914, 52,936 pieces have been verified giving a revenue of $2,650.94.

This service has to record the loss of two of its most efficient officers, Inspector Geo. Walton, of Winnipeg, resigned, and Inspector L. A. Fournier, of Sherbrooke, regretfully deceased.

6. The increase in expenditure is due to the fact that practically the same immense territory has to be journeyed to perform annual inspection as biennial inspection, whilst expenses for the cartage and transportation of inspectors' standards and equipment is more largely borne by the Service.

7. I might here remark that there is throughout the Dominion, amongst the public, scale manufacturers, retail and wholesale merchants, and elevator interests, an intense and growing demand for more efficient and more frequent W. & M. Inspection, and also for considerable reduction in the inspection fees collected. It would seem then that the time has come when the deficit incurred by the W. & M. Service must be accepted as an administrative obligation, and as one that must necessarily increase and be provided for in the interests of the stability and integrity of Canadian commerce.

8. The following is a list of the standards, balances and weights above referred to provided, as in the case of the standards of 1874, from L. Oertling, of London, England.

Standard Weights—

One set Troy Standards, 500 oz. down to ·001 oz.
One set Avoirdupoids Standards, 50 lbs. down to ½ dram.
One set Metric Standards, 20 kgs, down to .05 mg.

Balances—

One Bullion Balance to carry 1,000 oz. Troy in each pan, and sensitive to ·1 grain.
One Bullion Balance to carry 500 oz. Troy in each pan, and sensitive to ·1 grain,
One Bullion Balance to carry 200 oz. Troy in each pan, and sensitive to ·01 grain.
One Assay Balance to carry 2 grammes in each pan, and sensitive to ·005 mg., or the ·000077 grain.

These standards are stamped by the Board of Trade, England, and accompanied with certificates of verification, showing in the case of each weight its exact weight in vacuo to the fourth and fifth decimal of the grain, and have been procured as the primary reference standards of the department, and to supplement those which have been in use since 1874.

The fine assay balance has been procured in order that the Standards Branch may be in a position to verify with the requisite accuracy, the assay standards used in the annual trial of the Pyx at the Canadian Royal Mint.

Each of the above standards have been designated by the letter "C".

Inspection of Gas.

9. The total revenue collected during the twelve months ended March 31, 1914, for the inspection of gas and gas meters, was $62,909.90 as compared with $62,747.40 collected during the year ended March 31, 1913.

10. The total expenses were $62,879.47 as against $50,253.49 expended during the year ended March 31, 1913.

11. Appendix "E" gives a summary statement of the receipts and expenditures of each gas inspection district.

12. A statement of the illuminating power and purity of gas inspected during the year will be found in Appendix "F".

13. The illuminating power, where inspection has been made, has been as follows:—

Places.	Number of tests made.	Number of times below Standard.	Places.	Number of tests made.	Number of times below Standard
Barrie	12		St. Catharines	12	
Belleville	15		St. Thomas	23	
Berlin	12		Toronto	104	
Brockville	18		Windsor		
Cobourg	18		Woodstock	9	
Cornwall	18		Montreal	105	
Deseronto	17		Quebec	12	
Guelph	12		Sherbrooke	12	
Hamilton	10		St. Hyacinthe	12	
Ingersoll	12	4	Fredericton		
Kingston	12		Moncton		
Listowel	12		St. John, N.B.	8	
London	104		Halifax	12	
Napanee	17	1	Yarmouth	13	4
Ottawa	82	26	Charlottetown	15	6
Owen Sound	12		Winnipeg	102	75
Peterborough	20		Nanaimo	12	
Port Hope	17		New Westminster	12	
Sarnia			Vancouver	102	17
Stratford	11		Victoria	23	21

The revenue derived from the inspection of electricity was as follows:—

Fees for inspection of meters, etc		$80,476 50
The expenses of inspection (annual)	$39,347 02	
Expended on standard instruments, and maintenance of equipment	10,788 27	
		50,135 29
Leaving a net revenue of		$30,341 21

Since the year 1896-97 the two services of gas and electricity inspection, which are conducted largely by the same staff of officers, have reached that point at which they have ceased to be a burden upon the general taxpayer, as shown below:—

Years.	Gas and Electricity.	
	Revenue.	Expenditure.
	$ cts.	$ cts.
*1899-1900	35,523 50	26,424 48
1900-01	37,536 57	28,247 20
1901-02	43,663 05	33,328 48
1902-03	49,054 55	36,006 47
1903-04	50,218 75	33,426 15
1904-05	62,561 37	34,774 02
1905-06	76,539 00	38,917 48
1906-07	57,868 18	30,793 84
1907-08	86,552 20	48,831 75
1908-09	92,450 21	54,018 71
1909-10	100,647 20	55,514 14
1910-11	112,150 25	63,385 03
1911-12	117,917 45	80,537 37
1912-13	138,090 95	93,000 82
1913-14	143,386 40	113,014 76

* Exclusive of cost of standard instruments.

It will be observed that the reduction of fees in connection with the Gas and Electricity Inspection Service made in 1909 and 1911 (referred to in a previous report) has not brought about an equilibrium between receipts and expenditure. Another year should pass before a decision is reached respecting any further reduction. The reduced fees (1911) have only applied to a portion of the fiscal year 1911-12.

The kindred service of weights and measures inspection, it will be observed, earned about 78 per cent of its actual cost, the expenditure as already stated having been $144,989.97 against a revenue of $113,705.30.

I have the honour to be, sir,
Your obedient servant,

W. HIMSWORTH,
Deputy Minister.

Inland Revenue Department,
Ottawa, June 1, 1914.

APPENDIX A.

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1914.

Inspection Divisions.	Inspectors and Assistants.	Expenditures.							Revenues.
		Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Total.	
		$ cts.	$ cts.	$cts	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Belleville	Diamond, F. D. Howson, G. H. Slattery, T. Kylie, R. Worrell, J.	3,133 08	540 83	..	466 00	1,096 55	357 57	5,594 03	3,215 15
Hamilton	Sealey, J. C Clegg, Jos. Fitzgerald, E. W. Laidman, R. H. Wheatley, A. E. Robins, S. W. Brick, J. H., Jr	7,139 52	42 30	....	.....	1,523 95	114 94	8,880 71	9,658 52
Kingston	Gallagher, Thos. McLean, C. E. Davis, J. M.	1,966 58	400 00	....	.....	944 65	83 41	3,394 64	3,141 00
London	Hughes, R. A Coughlin, D. Liddle, D Thomas, J. S. Robinson, J. T. Cada, T. A. Webb, S. S.	5,252 19	692 62	....	153 00	2,494 94	216 09	8,808 84	11,813 90
Ottawa	Hinchey, E. H. Breen, J. Findley, Robt. Hodgins, Gerald. Dugal, G. A. Robinson, A. N. Trumpour, T. Church, G. C.	5,750 24	1,425 92	1 10	.....	2,214 55	104 36	9,496 17	6,331 23
Toronto	McConvey, J. J. Cruikshank, J. L. Murdoch, Jas. Smith, J. C. Wright, R. J. Fallowdown, W. A. McEachern, C. A. Stokes, R. A	7,960 39	226 66	....	.....	2,206 24	95 33	10,488 62	13,193 78
	Ontario	31,262 00	3,328 33	1 10	619 00	10,480 88	971 70	46,663 01	47,353 58

APPENDIX A—*Continued.*

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1914.

Inspection Divisions.	Inspectors and Assistants.	Expenditures.							Revenues.
		Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Totals.	
		$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Montreal ...	Archambault, J. E. D'Aoust, J. A .. Boudet, E..... Beaulac, J. H..... Hébert, J. A. P.. Galipeau, J. B. N. Wilson, J. C .... Bélanger, S. F.... Chapleau, Raoul.. Clément, A ... .. Bowen, A. A.	9,241 42	749 04	....	1,291 64	2,656 82	241 86	14,180 78	13,308 15
Quebec	Roy, C. E..... Bourget, L. J..... Lebel, J. A. W... Caldwell, A. B.... Jauvin, B..... Knowles, Chas ... Préfontaine, F. H. Beauchamp, L. E. Duchesne, Naz.... Miles, G..... Desjardins, H.... Lortie, Ad..... Bernatchez, Abel. Dionne, L. A .... Pidgeon, S. L.....	6,845 21	3,169 62	....	400 00	2,227 22	172 28	12,814 33	5,176 75
St. Hyacinthe....	Morin, J. P ..... Dessert, V..... Boisvert, F. ..... Champagne, J. A.	3,149 84	430 00	....	.....	636 42	47 27	4,263 53	1,528 75
Sherbrooke..	Fournier, L. A ... Delorme, O. C.... Lemire, J. N..... Van Antwerp, C. B. Champagne, J. A.	2,833 22	1,163 33	...	600 00	990 81	79 06	5,666 42	7,820 50
Three Rivers ..	Lessard, A. .... . Bolduc, E.....	1,849 92	.....	....	.....	1,063 45	72 86	2,986 23	2,069 00
	Quebec.	23,919 61	5,511 99	....	2,291 64	7,574 72	613 33	39,911 29	29,903 15
St. John, N.B	Barry, James..... Leblanc, J. O.... White, H. E..... Bernier, J. A..... Limerick, A. K...	4,449 80	100 00	..	.....	376 24	101 74	5,027 78	2,576 26

SESSIONAL PAPER No. 13

APPENDIX A—*Continued.*

STATEMENT of Weights and Measures, Expenditures and Revenues for the Fiscal Year ended March 31, 1914.

Inspection Divisions.	Inspectors and Assistants.	Expenditures.							Revenues.
		Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Totals.	
		$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Halifax	O'Brien, W. Sargent, F. H. Waugh, R. J. Dillon, D. H	2,399 88	859 92	....	507 36	428 93	86 75	4,282 84	1,257 75
Pictou	Dustan, W. M. Chisholm, J. J. Campbell, D. A. Lawrence, G. C.	2,908 21	492 33	....	.....	733 70	174 52	4,308 76	1,905 40
	Nova Scotia	5,308 09	1,352 25	....	507 36	1,162 63	261 27	8,591 60	3,163 15
Charlottetown, P.E.I	Davy E. Hughes, Hy	1,949 88	60 00	....	.....	254 53	13 99	2,278 40	495 22
Winnipeg, Man	Walton, G Gilby, W. F. Grant, C. D. McKay, R. McLean, D. G. Spicer, Hy. Landry, Thos. Kerr, John Bowen, A. A. White, J. G.	6,949 82	150 00	....	.....	2,630 45	198 65	9,928 92	10,564 00
Saskatoon, Sask	Johnston, C. W. Hayward, A. C. MacKinnon, J. W. Illingsworth, Hy. Welch, W. R. McIntosh, W. Wallace, R. Wood, S. H. Shaw, A. L.	2,975 11	1,887 59	....	.....	3,286 49	304 90	8,454 09	7,691 05
Calgary, Alta	Costello, J. W. McLeod, N. T. McDougall, J. C. Gibson, C.	2,199 96	1,506 57	1 10	.....	2,322 64	130 33	6,160 60	5,511 71
Nelson	Parker, Thos. Sutherland, J. W.	1,249 92	607 50	....	180 00	1,878 40	136 09	4,051 91	1,282 90
Vancouver	Dutton, A. H. Shaw, J. Harris, W. H.	2,399 88	20 00	...	.....	219 10	467 95	3,136 93	2,670 35
	British Columbia	3,649 80	627 50	....	180 00	2,127 50	604 04	7,188 84	3,953 25
Dawson, Yukon	McDonald, J. F.	750 29	.....	....	.....	.....	.....	750 29	.....
Milk testing glasses	.....	.....	.....	....	.....	.....	....	.....	2,650 94

APPENDIX A—*Concluded.*

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1914.

RECAPITULATION.

	Expenditures.							Revenues.
	Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Total.	
	$ cts.	$ cts.	$ c.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Ontario	31,262 00	3,328 33	1 10	619 00	10,480 88	971 70	46,663 01	47,353 58
Quebec	23,919 61	5,511 99	....	2,291 64	7,574 72	613 33	39,911 29	29,903 15
New Brunswick	4,449 80	100 00	....	.....	376 24	101 74	5,027 78	2,576 26
Nova Scotia	5,308 09	1,352 25	....	507 36	1,162 63	261 27	8,591 60	3,163 15
Prince Edward Island	1,949 88	60 00	....	....	254 53	13 99	2,278 40	495 22
Manitoba	6,949 82	150 00	....	.....	2,630 45	198 65	9,928 92	10,564 09
Saskatchewan	2,975 11	1,887 59	....	.....	3,286 49	304 90	8,454 09	7,691 05
Alberta	2,199 96	1,506 57	1 10	... .	2,322 64	130 33	6,160 60	5,511 71
British Columbia	3,649 80	627 50	...	180 00	2,127 50	604 04	7,188 84	3,953 25
Yukon	750 29	.....	...	.....	.....	.....	750 29	.....
Milk Testing Glasses	.....	.....	....	.....	.....	.....	.....	2,650 94
Chief Inspector	.....	.....	....	.....	449 08	67 37	516 45	.....
General Contingencies	.....	.....	....	.....	.....	4,163 39	4,163 39	.....
Printing	.....	.....	....	.....	.....	1,955 49	1,955 49	.....
Stationery	.....	.....	....	.....	.....	525 02	525 02	.....
Provisional Allowance	.....	.....	....	.....	.....	2,606 40	2,606 40	.....
International Bureau of Weights & Measures	.....	.....	....	.....	.....	268 40	268 40	.....
Grand Totals	83,414 36	14,524 23	2 20	3,598 00	30,665 16	12,786 02	144,989 97	113,862 40

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister

APPENDIX B

APPENDIX

RETURN of Weight and Measures inspected during the Fiscal Year ended March 31, each Division, for each Province

Inspection Office.	Weights.								Measures of Capacity.					
	Dominion.			Troy.		Miscellaneous.			Dominion.			Miscellaneous.		
	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.
Belleville	1,562	1,540	22	....	....	9	9	..	1,010	993	17	127	127	....
Hamilton	8,340	8,340	....	....	....	29	29	..	8,259	8,255	4	878	874	4
Kingston	1,570	1,570	....	....	....	7	7	..	3,495	3,495	..	102	102	....
London	3,346	3,345	1	....	....	6	6	..	33,285	33,285	..	1,201	1,194	7
Ottawa	9,143	9,105	38	39	39	13	13	..	2,161	2,151	10	254	244	10
Toronto	6,164	6,164	....	20	20	.....	..	..	24,237	24,237	..	2,916	2,898	18
Ontario	30,125	30,064	61	59	59	64	64	..	72,447	72,416	31	5,478	5,439	39
Montreal	11,003	10,969	34	56	56	189	189	..	27,277	27,277	..	1,545	1,545	....
Quebec	6,159	5,953	206	....	....	148	147	1	6,833	6,821	12	226	225	1
Sherbrooke	7,045	7,018	27	....	....	346	316	..	1,045	1,045	..	166	161	5
St. Hyacinthe	1,002	1,002	....	....	....	.....	.....	..	1,548	1,548	..	82	78	4
Three Rivers	1,628	1,628	....	....	....	.....	.....	..	1,564	1,564	..	29	29	....
Quebec	26,837	26,570	267	56	56	683	682	1	38,267	38,255	12	2,048	2,038	10
St. John, N.B.	1,991	1,991	....	....	....	8	8	..	3,318	3,318	..	2,997	2,996	1
Halifax	898	898	....	....	....	240	240	..	377	377	..	346	342	4
Pictou	868	868	....	....	....	11	11	..	1,039	1,039	..	170	170	....
Nova Scotia	1,766	1,766	....	....	....	251	251	..	1,416	1,416	..	516	512	4
Charlottetown, P.E.I.	372	372	....	....	....	3	3	..	163	163	..	48	48	....
Winnipeg, Man.	4,185	4,181	4	....	....	85	84	1	6,872	6,865	7	2,296	2,294	2
Saskatoon, Sask	284	278	6	....	....	.....	....	..	119	119	..	128	126	2
Calgary, Alta	632	632	....	....	....	1	1	..	88	88	..	154	148	6
Nelson	338	338	....	....	....	1	1	..	121	121	..	15	15	....
Vancouver	654	654	....	....	....	141	141	..	58	58	..	20	20	....
Br. Columbia	992	992	..	....	....	142	142	..	179	179	..	35	35	....
Dawson, Yukon	.....	.....	....	....	....	.....	.....	..	.....	.....	..	....	.....	....
Grand totals	67,184	66,846	338	115	115	1,237	1,235	2	122,869	122,819	50	13,700	13,636	64

INLAND REVENUE DEPARTMENT,
OTTAWA, June , 1913.

SESSIONAL PAPER No. 13

B.

1914, showing the Total Number brought for Verification, Verified and Rejected for and for the whole Dominion.

Measures of length.			Balances, &c.											
			Equal Armed.			Steelyards.			Platform Scales, Weigh Bridges, &c.			Miscellaneous.		
Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.
135	135	..	374	372	2	31	29	2	1,433	1,406	27	464	457	7
1,021	973	48	2,148	2,060	88	1,754	1,736	18	6,213	5,742	471	2,243	2,186	57
275	275	..	243	243	....	26	26	..	1,766	1,766	....	630	630	....
3,626	3,626	..	736	736	....	193	191	2	4,604	4,393	211	4,784	4,744	40
516	478	38	1,530	1,527	3	20	20	..	2,296	2,229	67	3,291	3,282	9
714	714	..	1,292	1,265	27	787	772	15	4,187	4,011	176	11,280	11,190	90
6,287	6,201	86	6,323	6,203	120	2,811	2,774	37	20,499	19,547	952	22,692	22,489	203
1,942	1,942	..	2,253	2,223	30	768	763	5	5,421	5,244	177	9,016	9,008	8
1,120	1,094	26	1,018	1,008	10	244	231	13	2,293	2,250	43	1,063	1,061	2
164	164	..	1,355	1,347	8	664	653	11	6,843	6,768	75	476	465	11
153	153	..	219	218	1	92	91	1	866	816	50	143	141	2
53	53	..	328	328	....	30	30	..	1,398	1,386	12	149	149	....
3,432	3,406	26	5,173	5,124	49	1,798	1,768	30	16,821	16,464	357	10,847	10,824	23
20	20	..	430	430	....	28	28	..	882	877	5	1,196	1,194	2
3	3	..	224	224	....	10	10	..	542	517	25	431	430	1
32	32	..	188	188	....	17	17	..	707	701	6	335	335	....
35	35	..	412	412	....	27	27	..	1,249	1,218	31	766	765	1
.....	..	..	73	73	....	9	9	..	317	317	.....	229	229	....
286	286	..	466	463	3	264	263	1	2,829	2,750	79	12,283	12,156	127
18	18	..	35	34	1	18	18	..	2,402	2,316	86	1,039	1,029	10
35	35	..	148	146	2	78	77	1	1,631	1,603	28	3,120	3,100	20
38	38	..	72	72	....	67	67	..	640	638	2	292	291	1
18	18	..	112	111	1	100	100	..	915	909	6	4,536	4,534	2
56	56	..	184	183	1	167	167	..	1,555	1,547	8	4,828	4,825	3
.....	.....	..	.....	.....	....	.....	.....	..	.....	.....	..	.....	.....	....
10,169	10,057	112	13,244	13,068	176	5,200	5,131	69	48,185	46,639	1,546	57,000	56,611	389

WM. HIMSWORTH,
Deputy Minister.

5 GEORGE V., A. 1915

APPENDIX

RETURN showing the Number of Dominion Weights and Lineal Measures of each Fiscal Year ended

Inspection Division.	Dominion Avoir													
	60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville	..	36	36	..	....	16	68	84	150	333	325	105	96	91
Hamilton	..	352	...	..	....	14	709	69	1,704	2,547	1,810	304	203	194
Kingston	..	....	..	..	....	23	60	80	142	353	303	206	167	100
London	..	50	....	..	....	7	68	109	280	736	676	326	304	290
Ottawa	..	24	24	..	...	22	139	114	273	636	592	1,191	1,129	1,086
Toronto	..	95	68	..	3	193	474	554	261	1,687	1,303	332	291	253
Ontario	..	557	128	..	3	275	1,518	1,010	2,810	6,292	5,009	2,464	2,190	2,014
Montreal	..	347	11	6	7	274	854	623	934	2,134	1,815	1,152	965	797
Quebec	..	58	5	..	11	51	367	529	695	1,003	913	794	739	583
Sherbrooke	..	587	....	10	10	36	118	612	200	1,731	1,741	732	413	242
St. Hyacinthe	..	.....	....	..	....	....	67	30	202	209	207	108	89	44
Three Rivers	..	.....	....	..	....	7	123	57	289	324	291	199	179	109
Quebec	..	992	16	16	28	368	1,529	1,851	2,220	5,401	4,967	2,985	2,376	1,775
St. John, N.B.	..	....	....	1	....	9	92	89	196	492	432	222	171	132
Halifax	..	35	..	..	...	7	36	51	124	243	182	80	59	40
Pictou	..	11	1	2	2	9	28	40	148	225	201	61	46	40
Nova Scotia	..	46	1	2	2	16	64	91	272	468	383	141	165	80
Charlottetown, P.E.I.	..	.....	....	..	....	5	14	24	38	118	73	27	21	19
Winnipeg, Man.	..	1,970	9	2	48	56	90	160	91	472	435	148	136	133
Saskatoon, Sask	..	.....	3	.	3	12	12	15	5	55	47	24	24	24
Calgary, Alta.	..	13	14	1	7	30	46	53	40	180	127	19	18	18
Nelson	..	. . .	....	..	...	1	5	8	32	85	72	27	24	22
Vancouver	..	16	20	..	15	22	18	31	55	107	99	52	47	42
British Columbia	..	16	20	..	15	23	23	39	87	192	171	79	71	64
Dawson, Yukon	..	.....	....	..	...	....	.....	....	.....	.....	.....	.....	....	.....
Grand totals	..	3,594	191	22	106	794	3,388	3,332	5,859	13,670	11,644	6,109	5,112	4,259

INLAND REVENUE DEPARTMENT,
OTTAWA June 1 1914

SESSIONAL PAPER No. 13

C.

Denomination presented for Verification in each Inspection Division during the March 31, 1914.

Weights.									Lineal Measures.									Miscellaneous measures.
dupois.							Troy Weights.	Miscellaneous Weights.										
1 oz.	8 drs.	4 drs.	2 drs.	1 dr.	½ dr.	Total Number.			6 feet.	5 feet.	1 yard.	½ yard.	2 feet.	1 foot.	½ foot.	100 feet chains.	66 feet chains.	Tape or riband.	Total Number.	
80	112	25	4	1	...	1,562	....	9	....	....	135	....	....	....	....	....	....	....	135	....
221	148	42	13	10	....	8,340	....	29	....	....	1,021	....	....	....	....	....	....	....	1,021	....
76	36	14	5	4	1	1,570	....	7	....	..	275	....	....	....	....	....	....	....	275	....
261	158	77	3	1	...	3,346	....	6	....	....	3,625	1	....	....	....	....	....	....	3,626	....
1,041	987	1,847	24	10	4	9,143	....	13	...	..	512	3	1	....	....	....	....	....	516	....
223	165	102	57	100	3	6,164	....	....	....	....	702	....	....	12	....	....	....	....	714	....
1,902	1,606	2,107	106	126	8	30,125	.. .	61	....	....	6,270	4	1	12	....	....	....	....	6,287	....
499	267	123	70	125	....	11,003	...	189	....	....	1,918	24	....	....	....	....	....	....	1,942	....
291	81	27	10	1	1	6,159	....	148	....	....	1,120	....	....	....	....	....	....	....	1,120	....
279	232	81	15	6	....	7,645	....	346	....	....	164	....	....	....	....	....	....	....	164	....
33	11	4	3	2	2	1,002	....	.....	..	....	153	....	....	....	....	....	....	....	153	....
49	1	....	....	....	....	1,628	...	.	....	..	53	....	....	....	....	....	....	....	53	....
1,151	592	235	98	134	3	26,837	...	683	....	....	3,408	24	..	.	....	....	....	....	3,432	....
95	42	17	1	....	...	1,991	....	8	....	....	20	....	..	....	....	....	....	....	20	....
24	6	7	4	...	...	898	....	240	....	...	3	...	..	....	....	....	....	....	3	....
30	13	8	2	1	....	868	....	11	....	....	32	....	..	....	....	....	....	....	32	....
54	19	15	6	1	....	1,776	....	251	....	....	35	....	.	....	....	....	....	....	35	....
16	10	5	2	....	....	372	....	3	....	....	.....	....	..	....	....	....	....	....	.....	. ..
134	107	79	60	55	....	4,185	....	85	....	....	286	...	..	....	....	....	....	....	286	....
24	17	17	2	....	..	284	....	...	...	....	18	....	..	....	....	....	....	....	18	....
18	15	13	11	8	1	632	....	1	...	....	35	...	.	....	....	....	....	....	35	....
21	18	15	7	1	....	338	....	1	....	....	38	....	..	....	....	....	....	....	38	....
40	. 38	34	18	....	....	654	....	141	....	....	18	...	..	....	....	....	....	....	18	....
61	56	49	25	1	....	992	....	142	.	....	56	....	..	....	....	....	....	....	56	....
.. .	....	.....	....	....	.. .	.....	....	.....	....	....	.....	...	..	....	....	....	....	....	.....	...
3,455	2,464	2,537	311	325	12	67,184	....	1,237	...	....	10,128	28	1	12	....	....	....	....	10,169	....

WM. HIMSWORTH,
Deputy Minister.

5 GEORGE V., A. 1915

APPENDIX

RETURN showing the Number of Dominion Weights and Lineal Measures of each March

Inspection Division.	Dominion Avoir- 60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville	..	36	36	..	....	16	67	82	148	329	313	104	96	91
Hamilton	..	352	....	....	....	14	709	69	1,704	2,547	1,819	304	203	194
Kingston	..	.....	.....	.....	.....	23	60	80	142	353	303	206	167	100
London	..	50	....	....	....	7	68	109	280	736	676	326	304	290
Ottawa	..	24	24	..	....	22	135	112	270	630	583	1,187	1,125	1,083
Toronto	..	95	68	..	3	193	474	554	261	1,687	1,303	332	291	253
Ontario	..	557	128	..	3	275	1,513	1,006	2,805	6,282	4,988	2,459	2,186	2,011
Montreal	..	347	11	6	7	273	852	621	931	2,127	1,807	1,148	962	794
Quebec	..	58	5	..	11	42	347	510	674	974	877	776	710	569
Sherbrooke	..	587	..	10	10	36	117	612	197	1,723	1,735	730	411	240
St. Hyacinthe	..	.....	..	..	....	....	67	30	202	209	207	108	80	44
Three Rivers	..	..	....	....	....	7	123	57	289	324	291	199	179	109
Quebec	..	992	16	16	28	358	1,506	1,830	2,293	5,357	4,917	2,955	2,342	1,756
St. John, N.B.	..	.....	..	1	....	9	92	89	196	492	432	222	171	132
Halifax	..	35	....	....	....	7	36	51	124	243	182	80	59	40
Pictou	..	11	1	2	2	9	28	40	148	225	201	61	46	40
Nova Scotia	..	46	1	2	2	16	64	91	272	468	383	141	105	80
Charlottetown, P.E.I.	..	.....	....	..	....	5	14	24	38	118	73	27	21	19
Winnipeg, Man.	..	1,970	9	2	48	55	90	159	91	471	434	148	136	133
Saskatoon, Sask.	..	.....	3	..	3	11	11	14	5	53	46	24	24	24
Calgary, Alta.	..	13	14	1	7	30	46	53	40	180	127	19	18	18
Nelson	..	.....	.....	.....	.....	1	5	8	32	85	72	27	24	22
Vancouver	..	16	20	..	15	22	18	31	55	107	99	52	47	42
British Columbia	..	16	20	..	15	23	23	39	87	192	171	79	71	64
Dawson, Yukon	..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Totals	..	3,594	150	22	106	782	3,359	3,305	5,827	13,613	11,571	6,074	2,888	4,237

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 13

C—*Continued.*

Denomination verified in each Inspection Division during the Fiscal Year ended 31, 1914.

Weights.							Troy Weights.	Miscellaneous Weights.	Lineal Measure.									Miscellaneous measures.
dupois.																		
1 oz.	8 drs.	4 drs.	2 drs.	1 dr.	½ dr.	Total Number.			6 feet.	5 feet.	1 yard.	½ yard.	2 feet.	1 foot.	½ foot.	100 feet chains.	60 feet chains.	Tape or riband.	Total number.	
80	112	25	4	1	....	1,540	....	9	....	....	135	....	..	..	..	..	..	..	135	....
221	148	42	13	10	....	8,340	....	29	....	....	973	....	..	..	..	..	..	..	973	....
76	36	14	5	4	1	1,570	....	7	....	....	275	....	..	..	..	..	..	..	275	....
260	158	77	3	1	....	3,345	....	16	....	....	3,626	..	..	..	..	..	..	..	3,626	....
1,040	986	1,846	24	10	4	9,105	..	13	..	..	478	....	..	..	..	..	..	..	478	....
223	165	102	57	100	3	6,164	....	.....	..	....	714	....	..	..	..	..	..	..	714	....
1,900	1,605	2,106	106	126	8	30,061	....	64	....	....	6,201	....	..	..	..	..	..	..	6,201	....
498	267	123	70	125	...	10,969	....	189	....	....	1,942	..	..	..	..	..	..	..	1,942	...
287	89	27	10	1	1	5,953	....	147	....	....	1,094	..	..	..	..	..	..	..	1,094	....
277	231	81	15	6	...	7,018	...	346	....	....	164	....	..	..	..	..	..	..	164	....
33	11	4	3	2	2	1,002	....	....	....	....	153	....	..	..	..	..	..	..	153	....
49	1	....	....	....	....	1,628	....	....	....	....	53	....	..	..	..	..	..	..	53	....
1,141	590	235	98	131	3	26,570	....	682	..	....	3,406	....	..	..	..	..	..	..	3,406	....
95	42	17	1	....	....	1,991	....	8	....	....	20	....	..	..	..	..	..	..	20	....
24	6	7	4	....	....	898	....	240	....	....	3	...	..	..	..	..	..	..	3	....
30	13	8	2	1	....	868	....	11	...	....	32	....	..	..	..	..	..	..	32	....
54	19	15	6	1	....	1,766	....	251	....	....	35	..	..	..	..	..	..	..	35	....
16	10	5	2	..	....	372	..	3	...	....	..	.	....	..	..	..	..	..	.. ...	...
134	107	79	60	55	....	4,181	....	81	..	. ..	286	....	..	..	..	..	..	..	286	....
24	17	17	2	....	...	278	....	..	....	....	18	....	..	..	..	..	..	..	18	....
18	15	13	11	8	1	632	...	1	....	....	35	....	..	..	..	..	..	..	35	....
21	18	15	7	1	....	338	....	1	....	....	38	...	..	..	..	..	..	..	38	....
40	38	34	18	....	....	654	...	141	....	....	18	....	..	..	..	..	..	..	18	...
61	56	49	25	1	....	992	...	142	....	....	56	....	..	..	..	..	..	..	56	....
.....	.....	..	....	....	....	....	...	.....	....	....	... .	....	..	..	..	..	..	..	.....	....
3,413	2,461	2,536	311	325	11	66,846	....	1,235	....	....	10,057	..	..	.	..	..	..	..	10,057	....

W. HIMSWORTH,
Deputy Minister.

5 GEORGE V., A. 1915

APPENDIX

RETURN showing the number of Dominion Weights and Lineal Measures of each March

Inspection Division	Dominion Avoir													
	60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville							1	2	2	4	12	1		
Hamilton														
Kingston														
London														
Ottawa							4	2	3	6	9	4	4	3
Toronto														
Ontario							5	4	5	10	21	5	4	3
Montreal						1	2	2	3	7	8	4	3	3
Quebec						9	20	19	21	29	36	24	29	14
Sherbrooke							1		3	8	6	2	2	2
St. Hyacinthe														
Three Rivers														
Quebec						10	23	21	27	44	50	30	34	19
St. John, N.B														
Halifax														
Picton														
Nova Scotia														
Charlottetown, P.E.I														
Winnipeg, Man						1		1		1	1			
Saskatoon, Sask						1	1		2	1				
Calgary, Alta														
Nelson														
Vancouver														
British Columbia														
Dawson, Yukon														
Grand totals						12	29	27	32	57	73	35	38	22

INLAND REVENUE DEPARTMENT,
OTTAWA, June, 1914.

SESSIONAL PAPER No. 13

C—*Concluded.*

Denomination Rejected in each Inspection Division during the Fiscal Year ended 31, 1914.

Weights.									Lineal Measures.										
dupois.																			
1 oz.	8 drs.	4 drs.	2 drs.	1 dr.	½ dr.	Total Number.	Troy Weights.	Miscellaneous Weights.	6 feet.	5 feet.	1 yard.	½ yard.	2 feet.	1 foot.	½ foot.	100 feet chains.	66 feet chains.	Tape or riband.	Total number.	Miscellaneous Measures.
						22														
											48								48	
1						1														
1	1	1				38					38								38	
2	1	1				61					86								86	
1						34														
4	1					206		1			26								26	
2	1					27														
7	2					267		1			26								26	
						4		1												
						6														
9	3	1				338		2			112								112	

W. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN showing the Number of Dominion Measures of Capacity, Balances and Inspection Division, during the

Inspection Division.	Measures of Capacity. Dominion. Bushel.	½ Bushel.	Peck.	Gallon.	½ Gallon.	Quart.	Pint.	½ Pint.	Gill.	¼ Gill.	Total Number.	Miscellaneous.
Belleville	7	8	55	210	237	298	176	17	2	....	1,010	127
Hamilton	394	373	487	1,193	1,429	1,732	2,175	437	39	...	8,259	878
Kingston	18	325	297	434	777	1,021	615	8	....	....	3,495	102
London	801	2,100	2,031	5,745	4,889	8,911	8,045	763	....	....	33,285	1,201
Ottawa	1	10	45	408	559	650	405	73	9	1	2,161	254
Toronto	.....	1,829	2,479	3,873	3,282	5,979	5,378	1,415	2	....	24,237	2,916
Ontario	1,221	4,645	5,394	11,863	11,173	18,591	16,794	2,713	52	1	72,447	5,478
Montreal	.....	944	1,345	4,386	4,758	7,423	6,301	1,903	217	....	27,277	1,545
Quebec	1	147	203	973	1,914	1,677	1,261	515	134	8	6,833	226
Sherbrooke	.....	4	11	213	322	335	124	35	1	...	1,045	166
St. Hyacinthe	.....	49	52	219	397	403	271	130	27	....	1,548	82
Three Rivers	.....	11	17	271	528	463	202	67	5	...	1,564	29
Quebec	1	1,155	1,628	6,062	7,919	10,301	8,159	2,650	384	8	38,267	2,048
St. John, N.B.	.....	170	245	738	815	695	600	52	2	...	3,318	2,997
Halifax	1	5	2	92	162	80	27	6	2	....	377	346
Pictou	....	5	6	244	385	284	117	.....	....	....	1,039	170
Nova Scotia	1	8	8	336	547	364	144	6	2	....	1,416	516
Charlottetown, P.E.I.	.....	1	7	22	82	45	6	.....	....	....	163	48
Winnipeg, Man.	96	72	.....	1,733	1,454	2,057	1,438	20	1	1	6,872	2,296
Saskatoon, Sask.	...	.....	.....	47	34	23	11	4	....	....	119	128
Calgary, Alberta	...	.....	.....	26	33	20	9	....	....	...	88	154
Nelson	.. ..	.....	.....	30	42	33	13	3	....	....	121	15
Vancouver	....	.....	.....	1	.....	41	15	1	....	....	58	20
British Columbia	.....	....	.....	31	42	74	28	4	....	....	179	35
Grand Totals	1,391	5,800	7,282	20,858	22,099	32,170	27,189	5,450	441	10	122,869	13,700

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 13

D.

Weighing Machines of each Denomination presented for verification, in each Fiscal Year ended March 31, 1914.

Balances.

With Equal Arms.				Steel Yards with Divided Arms.				Weigh Bridges or Platform Scales.							
5 lbs. and under.	6 lbs to 50 lbs.	51 lbs. to 100 lbs.	101 lbs. and upwards.	500 lbs. and under.	501 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	250 lbs. and under.	251 lbs. to 500 lbs.	501 lbs. to 2,000 lbs.	2,001 lbs. to 4,000 lbs.	4,001 lbs. to 6,000 lbs.	6,001 lbs. and upwards.	Total.	Miscellaneous.
155	183	....	36	23	5	3	....	396	87	528	138	41	243	1,838	464
672	1,476	....	....	1,699	49	5	1	3,082	114	2,326	276	111	304	10,115	2,243
105	138	....	....	24	2	....	...	478	148	891	57	46	152	2,035	630
388	348	....	....	179	12	1	1	977	119	2,361	300	104	743	5,533	4,784
1,154	350	....	26	17	1	2	....	853	159	944	90	74	176	3,846	3,291
603	634	2	53	684	80	21	2	2,295	82	1,075	193	77	465	6,266	11,280
3,077	3,129	2	115	2,626	149	32	4	8,081	709	8,125	1,054	447	2,083	29,633	22,692
809	1,438	2	4	746	18	4	1	1,564	1,100	1,993	247	148	369	8,442	9,016
190	818	1	9	241	3	..	....	819	603	672	77	32	90	3,555	1,063
628	725	2	....	615	26	14	9	3,605	768	1,687	192	278	313	8,862	476
40	158	21	....	59	33	.....	.....	251	172	313	8	40	82	1,177	143
52	276	..	...	30	....	....	....	377	448	514	12	24	23	1,756	149
1,719	3,415	26	13	1,690	80	18	10	6,616	3,091	5,179	536	522	877	23,792	10,847
157	273	....	....	25	3	....	.	331	153	263	34	9	92	1,340	1,196
80	143	..	1	9	1	....	....	239	58	140	12	15	78	776	431
38	148	..	2	17	....	....	....	293	89	143	22	22	138	912	335
118	291	....	3	26	1	....	....	532	147	283	34	37	216	1,688	766
17	56	....	....	9	....	....	....	88	23	162	13	15	16	399	229
218	230	4	14	220	39	4	1	579	39	622	126	491	972	3,559	12,283
19	15	1	...	12	5	1	...	154	15	215	72	626	1,320	2,455	1,039
70	66	6	6	36	25	17	....	371	23	503	68	128	538	1,857	3,120
27	45	....	....	31	11	23	2	294	12	217	19	10	88	779	292
51	53	....	8	40	14	46	....	325	40	431	35	9	75	1,127	4,536
78	98	....	8	71	25	69	2	619	52	648	54	19	163	1,906	4,828
5,473	7,573	39	159	4,715	327	141	17	17,371	4,252	16,009	1,991	2,294	6,277	66,629	57,000

WM. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN showing the Number of Dominion Measures of Capacity, Balances and during the Fiscal Year

Inspection Division.	Measures of Capacity. Dominion.											
	Bushel.	½ Bushel.	Peck.	Gallon.	½ Gallon.	Quart.	Pint.	½ Pint.	Gill.	¼ Gill.	Total Number.	Miscellaneous.
Belleville	7	8	46	208	232	297	176	17	2	..	993	127
Hamilton	391	373	487	1,190	1,429	1,732	2,174	437	39	....	8,255	874
Kingston	18	325	297	434	777	1,021	615	8	....	.	3,495	102
London	801	2,100	2,031	5,745	4,889	8,911	8,045	763	..	....	33,285	1,194
Ottawa	1	10	45	405	558	646	403	73	9	1	2,151	244
Toronto	..	1,829	2,479	3,873	3,282	5,979	5,378	1,415	2	....	24,237	2,898
Ontario	1,221	4,645	5,385	11,855	11,167	18,586	16,791	2,713	52	1	72,416	5,439
Montreal	.....	944	1,345	4,386	4,758	7,423	6,301	1,903	217	...	27,277	1,545
Quebec	1	147	203	970	1,913	1,671	1,260	514	134	8	6,831	225
Sherbrooke	....	4	11	213	322	335	124	35	1	....	1,045	161
St. Hyacinthe	.....	49	52	219	397	403	271	130	27	....	1,548	78
Three Rivers	....	11	17	271	528	463	202	67	5	....	1,564	29
Quebec	1	1,155	1,628	6,059	7,918	10,295	8,158	2,649	384	8	38,255	2,038
St. John, N.B	.....	170	245	738	815	695	600	53	2	...	3,318	2,996
Halifax	1	5	2	92	162	80	27	6	2	...	377	342
Pictou	.....	3	6	244	385	284	117	.....	....	...	1,039	170
Nova Scotia	1	8	8	336	547	364	144	6	2	....	1,416	512
Charlottetown, P.E.I	....	. ...	1	7	22	82	45	6	....	....	163	48
Winnipeg, Man	96	72	..	1,733	1,454	2,050	1,438	20	1	1	6,865	2,294
Saskatoon, Sask	.....	.....	.....	47	34	23	11	4	....	....	119	126
Calgary, Alta	. ..	.....	.....	26	33	20	9	.....	....	...	88	148
Nelson	.....	.....	.....	30	42	33	13	3	..	....	121	15
Vancouver	.....	...	. .	1	.....	41	15	1	....	....	58	20
British Columbia	.....	.....	.....	31	42	74	28	4	. .	....	179	35
Dawson, Yukon	... ..	.....	.... .	.....	.....	.....	.....	.....	....	....	.....	.....
Grand Totals	1,319	6,050	7,267	20,832	20,032	32,189	272,211	4,835	436	9	122,819	13,636

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 13

D.

Weighing Machines of each Denomination verified, in each Inspection Division, ended March 31, 1914,

Balances.

With equal arms.				Steel yards with divided arms.				Weigh Bridges or Platform Scales.							Miscellaneous.
5 lbs. and under.	6 lbs. to 50 lbs.	51 lbs. to 100 lbs.	101 lbs. and upwards.	500 lbs. and under.	501 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	250 lbs. and under.	251 lbs to 500 lbs.	501 lbs. to 2,000 lbs.	2,001 lbs. to 4,000 lbs.	4,001 lbs. to 6,000 lbs.	6,001 lbs. and upwards.	Total.	
155	181	....	36	21	5	3	....	391	86	525	134	40	230	1,807	457
633	1,427	....	....	1,682	49	4	1	2,977	97	2,131	231	98	208	9,538	2,186
105	138	..	....	24	2	....	....	478	148	891	57	40	152	2,035	630
388	348	..	....	178	11	1	1	951	115	2,274	280	96	677	5,320	4,744
1,154	347	....	26	17	1	2	....	832	153	915	88	71	170	3,776	3,282
594	616	2	53	671	79	20	2	2,269	74	997	177	73	421	6,048	11,190
3,029	3,057	2	115	2,593	147	30	4	7,898	673	7,733	967	418	1,858	28,524	22,489
794	1,423	2	4	740	18	4	1	1,538	1,069	1,903	241	137	356	8,230	9,008
187	811	1	9	228	3	....	....	804	587	657	76	31	85	3,489	1,061
628	717	2	....	604	26	14	9	3,591	756	1,664	192	269	296	8,768	465
40	158	20	....	59	32	....	....	240	157	293	7	39	80	1,125	141
52	276	..	..	30	....	....	....	377	446	504	12	24	23	1,744	149
1,701	3,385	25	13	1,661	79	18	10	6,560	3,015	5,021	528	500	840	23,356	10,824
157	273	..	...	25	3	....	....	331	153	261	33	9	90	1,335	1,194
80	143	....	1	9	1	....	....	236	57	129	11	14	70	751	430
38	148	....	2	17	....	....	....	293	89	143	22	21	133	906	335
118	291	....	3	26	1	....	....	529	146	272	33	35	203	1,657	765
17	56	....	....	9	....	....	....	88	23	162	13	15	16	399	229
216	230	4	13	219	39	4	1	575	39	611	121	468	936	3,476	12,156
19	14	1	....	12	5	1	....	153	15	208	69	612	1,259	2,368	1,029
68	66	6	6	35	25	17	...	368	23	494	67	126	525	1,826	3,100
27	45	....	....	31	11	23	2	294	12	216	19	10	87	777	291
50	53	..	8	40	14	46	....	325	40	427	33	9	75	1,120	4,534
77	98	...	8	71	25	69	2	619	52	643	52	19	162	1,897	4,825
.....	.....	....	....	....	....	...	....	.....	.....	.....	.....	.....	.....	.....	.....
5,402	7,470	38	158	4,651	324	139	17	17,121	4,139	15,405	1,883	2,202	5,889	64,838	56,611

W. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN shewing the Number of Dominion Measures of Capacity, Balances and during the Fiscal Year

Inspection Division.	Measures of Capacity. Dominion. Bushel.	Half bushel.	Peck.	Gallon.	Half gallon.	Quart.	Pint.	Half pint.	Gill.	Half gill.	Total number.	Miscellaneous.
Belleville			9	2	5	1					17	
Hamilton							1				4	4
Kingston												
London												7
Ottawa				3	1	4	2				10	10
Toronto												18
Ontario			9	8	6	5	3				31	39
Montreal												
Quebec				3	1	6	1	1			12	1
Sherbrooke												5
St. Hyacinthe												4
Three Rivers												
Quebec				3	1	6	1	1			12	10
St. John, N.B												1
Halifax												4
Pictou												
Nova Scotia												4
Charlottetown, P.E.I												
Winnipeg, Man						7					7	2
Saskatoon, Sask												2
Calgary, Alta												6
Nelson												
Vancouver												
British Columbia												
Dawson, Yukon												
Grand totals			9	11	7	18	4	1			50	64

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

SESSIONAL PAPER No. 13

D—*Concluded.*

Weighing Machines of each Denomination Rejected, in each Inspection Division ended March 31, 1914.

Balances.															
With Equal Arms.				Steel yards with Divided Arms.				Weigh Bridges or Platform Scales.							
5 lbs. and under.	6 lbs. to 50 lbs.	51 lbs. to 100 lbs.	101 lbs. and upwards.	500 lbs. and under.	501 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	250 lbs. and under.	251 lbs. to 500 lbs.	501 lbs. to 2,000 lbs.	2,001 lbs. to 4,000 lbs.	4,001 lbs. to 6,000 lbs.	6,001 lbs. and upwards.	Total.	Miscellaneous.
....	2	.....	.....	2	.....	.....	.....	5	1	3	4	1	13	13	7
39	49	...	....	17	.	1	....	105	17	195	45	13	96	577	57
....	....	.....	.....	.....	....	....	...	...	...	.....	.....	.....	...	...	...
....	....	....	.....	1	1	.....	.....	26	4	87	20	8	66	213	40
....	3	.....	..	....	...	.....	.....	21	6	29	2	3	6	70	9
9	18	.....	.....	13	1	1	....	26	8	78	16	4	44	218	90
48	72	.....	.....	33	2	2	.....	183	36	392	87	29	225	1,109	263
15	15	...	..	5	.....	.....	.....	26	31	90	6	11	13	212	8
3	7	.....	... ..	13	....	... ..	. ..	5	16	15	1	1	5	66	2
....	8	... .	.....	11	.....	.....	.....	14	12	23	...	9	17	94	11
....	...	1	....	.....	1	.....	.....	11	15	20	1	1	2	52	2
...	....	.....	....	...	....	.....	.....	...	2	10	.....	....	.....	12	.....
18	30	1	.....	29	1	....	.....	56	76	153	8	22	37	433	23
....	..	.....	.....	.....	.....	... ..	.....	.....	... ..	2	1	.....	2	5	2
..	....	.....	....	.....	....	....	....	3	1	11	1	1	8	25	1
....	..	.	.....	.....	.....	.....	.....	.....	...	.....	. ...	1	5	6	.
....	....	. ....	....	.....	.....	.. ...	...	3	1	11	1	2	13	31	1
....	....	.....	.....	.....	.....	.....	.....	.....	.....	.... .	. .	.....	.....	.....	. ..
2	....	. .	1	1	.....	. ..	.....	4	.....	11	5	23	36	83	127
...	1	.....	....	.....	.....	.....	.....	1	....	7	3	14	61	87	10
2	....	....	.....	1	.....	.....	.....	3	.....	9	1	2	13	31	20
...	...	....	.....	... .	.....	....	.....	....	....	1	.....	....	1	2	1
1	....	...	.....	. ...	.....	....	.....	.....	.....	4	2	.....	.. ...	7	2
1	....	.....	....	.....	.....	.....	....	.....	....	5	2	.....	1	9	3
....	....	...	...	.. ..	... ..	..	...	.....	....	.....	.....	....	.....	.....	... ..
71	103	1	1	64	2	2	....	250	113	595	108	92	389	1,791	389

W. HIMSWORTH,
Deputy Minister.

APPENDIX E.

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1914.

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Belleville	Diamond, F. D*. Bickle, W Rork, Thos.	324 96	101 50	200 00	152 53	81 25	860 24	1,755 40
Berlin								45 20
Brockville								7 20
Cobourg								9 00
Guelph								15 00
Hamilton	Lutz, H Murphy, F. C. Dennis, W. A. Powell, J. B. Lovell, Ernest	3,433 31	1,357 95	120 00	493 85	192 11	5,597 22	7,479 10
Kingston								15 00
London	Nash, A. F Skelton, A. R. Male, T. Thrasher, W. A. Rennie, George. Orr, H. N	3,370 51	476 74	19 50	493 35	110 53	4,470 63	5,900 60
Ottawa	Roche, H. G. Couvrette, A. A. Bond, M. B. Roche, W. J. Chevrier, R. J.	4,433 22	955 00	420 00		68 74	5,876 96	3,126 60
Owen Sound								8 00
Peterborough								21 00
Sarnia								33 90
Toronto	Stiver, J. L. Pape, Jas. Reesor, M. W. Renahan, M. J. Ogden, E. J. Clark, H. M. Johnstone, S. G. Wilson, H. H. Mills, A. E. Shanacy, M. Broadfoot, S. Graham, W. J. Hacker, A. N.	11,391 19	449 98		80 55	154 04	12,075 76	15,888 00
Woodstock								16 80
	Ontario	22,953 19	3,341 17	759 50	1,220 28	606 67	28,880 81	34,320 80
Montreal	Aubin, A O'Flaherty, M.J. Aubin, C. Mann, W. Boucher, A. Blandford, E. B. Clayton, J. W.	7,062 65	72 00	240 00	49 50	143 15	7,567 30	17,812 70
Quebec	Levasseur, N. Béland, E.	1,999 92	45 00	150 00	5 80	196 80	2,397 52	751 90
Sherbrooke	Simpson, A. F. Bowen, F. C.	499 92					499 92	159 60
St. Hyacinthe	Benoit, L. V.	99 96					99 96	131 40
	Quebec	9,662 45	117 00	390 00	55 30	339 95	10,564 70	18,855 60

* For salary, see Electric Light, App. H.

SESSIONAL PAPER No. 13

APPENDIX E—*Concluded.*

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1914—*Concluded.*

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
		$ cts	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Fredericton	Wilson, J. E.	99 96					99 96	
St. John	Wilson, J. E.	1,399 94			106 31	57 40	1,563 65	968 40
	N. Brunswick.	1,499 90			106 31	57 40	1,663 61	968 40
Halifax, N.S.	Toale, J Withers, S. W. Munro, H. D.	2,399 90		507 36	84 30		2,991 56	356 90
Charlottetown, P.E.I	Bell, J. H.	499 92					499 92	51 00
Winnipeg, Man.	Hamilton, R. Babington, F. C Weber, Louis. Ross, W. A. Hood, H. Pankhurst, G. F	5,249 90					5,249 90	3,317 00
Calgary	*Kyle, W. P		112 25		134 45	155 94	402 64	806 40
Edmonton	*Jones, B. B.					14 38	14 38	
	Alberta		112 25		134 45	170 32	417 02	806 40
New Westminster	Wolfenden, Wm.	49 98					49 98	
Vancouver	*Stott, James.		48 00			91 65	139 65	3,304 40
Victoria	Dresser, F.							
	Shaw, J	1,499 88			8 85	5 00	1,513 73	929 40
	British Columbia.	1,549 86	48 00		8 85	96 65	1,703 36	4,233 80
General Contingencies						5,486 40	5,486 40	
Eastern Dominion Inspection					175 65		175 65	
Western " "			5 55		376 80	117 45	499 80	
Printing						3,328 66	3,328 66	
Stationery						1,418 08	1,418 98	
Grand Totals		43,815 12	3,623 97	1,656 86	2,161 94	11,621 58	62,879 47	62,909 90

* For salary, see Electric Light, Appendix H.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

W. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains		
Belleville—										
April										
May										
June			16·00	0	1					
July	18·97	16·00	17·48	0	2					
August			16·84	0	1					
September	16·89	16·84	16·86	0	2					
October			19·45	0	1					
November	19·45	17·74	18·59	0	2					
December			17·50	0	1					
January	17·67	17·50	17·58	0	2					
February			16·57	0	1					
March	17·53	16·57	17·05	0	2					
				0	15					
Deseronto—										
April										
May			19·20	0	1					
June			19·61	0	1					
July			19·10	0	1					
August			17·06	0	1					
September	19·10	17·06	17·92	0	3					
October			16·50	0	1					
November			22·70	0	1					
December	22·70	16·50	19·76	0	3					
January			24·60	0	1					
February			22·20	0	1					
March			22·20	0	3					
				0	17					
Brockville—										
April			18·60	0	1					
May	18·60	18·00	18·30	0	2					
June			22·18	0	1					
July	22·18	20·30	21·24	0	2					
August			21·08	0	1					
September	21·08	19·46	20·27	0	2					
October			20·00	0	1					
November	21·00	20·00	20·50	0	2					
December			20·50	0	1					
January	20·50	19·15	19·82	0	2					
February			19·00	0	1					
March	20·00	19·00	19·50	0	2					
				0	18					
Cobourg—										
April			17·34	0	1					
May			17·70	0	1					
June			17·21	0	1					
July			17·48	0	1					
August			17·19	0	1					
September	17·48	17·10	17·26	0	3					
October			16·36	0	1					
November			17·57	0	1					
December	17·57	16·36	16·79	0	3					
January			17·56	0	1					
February			17·43	0	1					
March	18·06	17·43	17·68	0	3					
				0	18					

SESSIONAL PAPER No. 13

F.

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains	Grains	Grains						
					1	0	1	Photometer out of order—No fees to be collected for April and May—Ref. 104546.
					1	0	1	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					17	0	17	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					3	0	3	
					1	0	1	
					0	1	1	
					2	1	3	
					1	0	1	
					1	0	1	
					3	0	3	
					15	2	17	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					18	0	18	
					2	0	2	
					2	0	2	
					1	0	1	
					1	0	1	
					1	0	1	
					3	0	3	
					1	0	1	
					1	0	1	
					3	0	3	
					1	0	1	
					1	0	1	
					3	0	3	
					20	0	20	

5 GEORGE V., A. 1915

APPENDIX

Return of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Kingston—										
April			18·60	0	1					
May			18·80	0	1					
June			19·81	0	1					
July			18·53	0	1					
August			21·11	0	1					
September			20·78	0	1					
October			21·20	0	1					
November			21·70	0	1					
December			21·60	0	1					
January			25·60	0	1					
February			20·18	0	1					
March			20·60	0	1					
				0	12					
Napanee—										
April										
May			18·02	0	1					
June			22·90	0	1					
July			17·70	0	1					
August			21·30	0	1					
September	21·30	17·70	19·34	0	3					
October			22·00	0	1					
November			20·20	0	1					
December	22·00	20·20	21·20	0	3					
January			18·00	0	1					
February			16·60	0	1					
March	18·00	16·60	15·23	1	3					
				1	17					
Peterborough—										
April	18·10	18·00	18·05	0	2					
May	18·60	18·00	18·33	0	3					
June			18·10	0	1					
July	18·10	18·10	18·10	0	2					
August			18·70	0	1					
September	18·70	18·50	18·60	0	2					
October			18·90	0	1					
November	19·10	18·90	19·00	0	2					
December			18·10	0	1					
January	18·30	18·10	18·20	0	2					
February			17·90	0	1					
March	18·00	17·90	17·95	0	2					
				0	20					
Port Hope—										
April			18·30	0	1					
May										
June			18·79	0	1					
July			18·62	0	1					
August			19·02	0	1					
September	19·02	18·61	18·75	0	3					
October			17·81	0	1					
November			18·30	0	1					
December	18·55	17·81	18·27	0	3					
January			18·54	0	1					
February			18·62	0	1					
March	18·62	17·03	18·06	0	3					
				0	17					

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					3	0	3	
					1	0	1	
					1	0	1	
					3	0	3	
					1	0	1	
					1	0	1	
					3	0	3	
					17	0	17	
					2	0	2	
					3	0	3	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					20	0	20	
					2	0	2	
					2	0	2	Photometer not working properly, &c.
					1	0	1	
					1	0	1	
					1	0	1	
					3	0	3	
					1	0	1	
					1	0	1	
					3	0	3	
					1	0	1	
					1	0	1	
					3	0	3	
					20	0	20	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times below standard.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Hamilton—										
April			17·71	0	1					
May			16·78	0	1					
June			17·43	0	1					
July			17·64	0	1					
August			17·64	0	1					
September			17·43	0	1					
October			17·97	0	1					
November			17·76	0	1					
December			16·42	0	1					
January			17·98	0	1					
February										
March										
				0	10					
Berlin—										
April			17·74	0	1					
May			18·18	0	1					
June			18·07	0	1					
July			19·24	0	1					
August			16·72	0	1					
September			17·80	0	1					
October			17·77	0	1					
November			17·60	0	1					
December			19·49	0	1					
January			17·60	0	1					
February			17·45	0	1					
March			17·50	0	1					
				0	12					
St. Catharines Gas Co.—										
April			16·78	0	1					
May			16·78	0	1					
June			16·75	0	1					
July			16·38	0	1					
August			16·47	0	1					
September			16·78	0	1					
October			16·97	0	1					
November			16·54	0	1					
December			16·54	0	1					
January			16·54	0	1					
February			16·78	0	1					
March			16·75	0	1					
				0	12					
Brantford Natural Gas Co.—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
								Amalgamated with Ontario Pipe Line Co., Jan. 1, 1914, under the name of United Gas & Fuel Co.
					10	0	10	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					2	3	5	
					4	0	4	
					0	4	4	
					0	5	5	
					40	12	52	

5 GEORGE V., A. 1915

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains	Grains	Grains		
Dominion Natural Gas Co., Dundas & Dunnville—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Provincial Natural Gas Co., Niagara Falls.—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Ontario—Pipe line, Hamilton—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										

SESSIONAL PAPER No. 13

F.—*Continued.*

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance 4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains	Grains	Grains						
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					52	0	52	
					0	4	4	
					0	4	4	
					0	5	5	
					0	4	4	
					0	4	4	
					0	5	5	
					0	4	4	
					0	4	4	
					0	5	5	
					0	4	4	
					0	4	4	
					0	5	5	
					0	52	52	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	Amalgamated with "Hamilton Gas Light Co.," Jan. 1, 1914, under the name of "United Gas & Fuel C."
					5	0	5	
					52	0	52	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
United Natural Gas Co., St. Catharines										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Dominion (Galt) Natural Gas Co										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Sterling Natural Gas Co., Port Colborne—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
London City Gas Co—										
April	20·66	17·47	18·36	0	8					
May	19·25	16·28	17·40	0	10					
June	19·13	16·85	18·10	0	8					
July	20·55	17·13	18·30	0	8					
August	18·10	16·00	17·41	0	10					
September	18·73	17·73	18·06	0	8					
October	18·51	17·01	17·99	0	8					
November	18·52	16·56	17·78	0	10					
December	18·65	16·80	17·76	0	8					
January	18·96	16·22	17·96	0	10					
February	18·55	16·60	17·46	0	8					
March	18·09	16·46	17·40	0	8					
				0	104					

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains	Grains.	Grains.						
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					0	1	1	
					0	1	1	
					0	1	1	
					0	1	1	
					8	4	12	
					1	0	1	
					1	0	1	
					1	0	1	
					0	1	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					11	1	12	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					10	0	10	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					104	0	104	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard. 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains	Grains.	Grains.		
Chatham, Gas Co—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Ingersoll, Gas Light Co—										
April			19·92	0	1					
May			15·65	1	1					
June			16·72	0	1					
July			16·67	0	1					
August			20·30	0	1					
September			18·02	0	1					
October			20·88	0	1					
November			19·13	0	1					
December			14·71	1	1					
January			15·42	1	1					
February			14·22	1	1					
March			15·44	0	1					
				4	12					
St. Thomas, City of—										
April	18·81	17·93	18·37	0	2					
May	18·78	18·07	18·42	0	2					
June	19·70	18·53	19·11	0	2					
July	18·84	18·64	18·74	0	2					
August	18·10	18·08	18·09	0	2					
September	17·59	17·27	17·43	0	2					
October	19·54	18·83	19·18	0	2					
November			19·53	0	1					
December	16·97	16·70	16·83	0	2					
January	21·00	17·85	19·42	0	2					
February	18·48	17·88	18·18	0	2					
March				0	2					
				0	23					
Windsor, Gas Co—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sul. Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of exallowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					2	0	2	
					1	0	1	
					0	1	1	
					2	0	2	
					1	0	1	
					0	1	1	
					0	1	1	
					1	0	1	
					0	1	1	
					0	1	1	
					1	0	1	
					1	0	1	
					9	5	14	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					1	0	1	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					23	0	23	
					0	4	4	
					0	5	5	
					0	4	4	
					2	2	4	
					0	5	5	
					1	3	4	
					1	3	4	
					5	0	5	
					4	0	4	
					2	3	5	
					0	4	4	
					0	4	4	
					15	37	52	

5 GEORGE V., A. 1915

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Sarnia, Gas & El. Co—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Petrolia—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Stratford, Gas Co—										
April			16·95	0	1					
May			17·02	0	1					
June			18·04	0	1					
July			17·52	0	1					
August			17·16	0	1					
September			16·67	0	1					
October			16·65	0	1					
November			16·14	0	1					
December			16·82	0	1					
January										
February			17·78	0	1					
March			17·90	0	1					
				0	11					
Woodstock, Gas Light Co										
April			17·78	0	1					
May			17·38	0	1					
June			17·26	0	1					
July			17·51	0	1					
August			17·36	0	1					
September			17·62	0	1					
October			17·39	0	1					
November			16·89	0	1					
December			17·16	0	1					
January										
February										
March										
				0	9					

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sul. Hydrogen.			Remarks.
Highest	Lowest	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					0	1	1	
					2	0	2	
					2	0	2	
					1	0	1	
					1	0	1	
					0	1	1	
					0	1	1	
					16	3	19	
					0	1	1	
					0	1	1	
					1	0	1	
					1	0	1	
					1	0	1	
					3	2	5	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
								No test made owing to alterations and repairs made in the Gas Inspection office.
					1	0	1	
					1	0	1	
					11	0	11	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					10	0	10	
					6	0	6	
					4	0	4	
					29	0	29	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
YUM										
Ottawa—										
April	16·25	15·55	15·98	3	8	14·59	14·41	14·50	0	2
May	16·23	15·83	16·05	1	8	14·97	14·30	14·63	0	2
June	16·31	15·76	16·05	2	10	14·70	14·11	14·40	0	2
July	16·29	15·85	16·07	3	8	14·95	14·38	14·66	0	2
August	16·27	15·82	16·05	3	8	14·72	14·36	14·54	0	2
September	16·23	15·70	16·05	2	10	14·54	14·37	14·45	0	2
October	16·24	15·76	16·06	1	8	14·64	14·19	14·41	0	2
November	16·28	15·83	16·03	4	8	14·81	14·47	14·64	0	2
December	16·27	15·70	16·02	4	10	14·97	14·38	14·67	0	2
January										
February										
March	17·00	15·19	15·97	3	4					
				26	82				0	18
Stormont, Gas & El. Power Co—										
April										
May			17·22	0	1					
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
				0	1					
Toronto, Consumer's Gas Co—										
April	18·67	17·62	18·03	0	8	22·99	15·07	19·03	0	2
May	18·47	17·63	18·07	0	8	14·80	8·55	11·67	0	2
June	18·20	17·15	17·80	0	10			7·55	0	1
July	18·15	17·03	17·73	0	8					
August	19·00	17·28	18·04	0	8					
September	19·02	17·28	18·17	0	10					
October	19·06	18·14	18·54	0	8					
November	18·89	18·41	18·68	0	8	18·39	15·63	17·01	0	2
December	19·14	17·51	18·65	0	10	22·31	15·63	18·77	0	3
January	18·86	17·92	18·58	0	8	18·26	14·64	16·45	0	2
February	19·29	18·48	18·72	0	8	21·41	19·33	20·37	0	2
March	18·86	17·89	18·41	0	10	24·16	19·68	21·92	0	2
				0	104				0	16
Barrie, Gas Co—										
April			18·38	0	1					
May			19·50	0	1					
June			19·22	0	1					
July			19·20	0	1					
August			20·71	0	1					
September			19·62	0	1					
October			19·95	0	1					
November			19·23	0	1					
December			18·20	0	1					
January			19·40	0	1					
February			19·84	0	1					
March			18·47	0	1					
				0	12					

N. B.—For Board of Light and Heat Commissioners, Guelph, see Page 46.

SESSIONAL PAPER No. 13

F.—*Continued.*

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
2·14	1·91	2·02	0	2	8	0	8	
2·25	1·98	2·11	0	2	8	0	8	
2·21	1·16	1·68	0	2	10	0	10	
2·29	1·09	1·69	0	2	8	0	8	
1·87	1·27	1·57	0	2	8	0	8	
2·25	1·25	1·75	0	2	10	0	10	
2·17	2·14	2·15	0	2	8	0	8	
2·26	2·24	2·25	0	2	8	0	8	
2·14	2·08	2·11	0	2	10	0	10	
.....	.....	.....	.....	.....	....	.....	.....	No tests made.
.....	.....	.....	.....	.....	.....	.....	.....	"
.....	.....	.....	.....	.....	4	0	4	
			0	18	82	0	82	
.....	.....	.....	.....	.....	.....	.....	.....	No tests made.
.....	.....	.....	.....	..	0	1	1	
.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	
					0	1	1	
0·00	0·00	0·00	0	2	8	0	8	
0·00	0·00	0·00	0	2	8	0	8	
0·00	0·00	0·00	0	2	10	0	10	
.....	.....	.....	.....	.....	8	0	8	No sulphur or ammonia tests.
.....	.....	.....	.....	.....	8	0	8	" "
.....	.....	.....	.....	.....	10	0	10	" "
.....	.....	.....	.....	.....	8	0	8	
0·00	0·00	0·00	0	2	8	0	8	
0·00	0·00	0·00	0	2	10	0	10	
0·00	0·00	0·00	0	2	8	0	8	
0·00	0·00	0·00	0	2	8	0	8	
0·00	0·00	0·00	0	2	10	0	10	
			0	16	104	0	104	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
					12	0	12	

5 GEORGE V., A. 1915

APPENDIX F—

RETURN of Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Owen Sound, Gas Dept—										
April			16·10	0	1					
May			16·50	0	1					
June			16·33	0	1					
July			16·18	0	1					
August			16·10	0	1					
September			16·00	0	1					
October			16 12	0	1					
November			16·05	0	1					
December			16.00	0	1					
January			16·01	0	1					
February			16·10	0	1					
March			16·50	0	1					
				0	12					
Montreal—										
April	18·66	16·25	17·28	0	9	15·32	15·11	15·21	0	2
May	18·41	16·62	17·39	0	9	17·83	13 60	15·71	0	2
June	18·41	17·05	17·49	0	8	17·36	14·50	15·93	0	2
July	18·69	17·16	17 61	0	9	14·97	13·92	14·44	0	2
August	19·61	16·83	18·02	0	9	18·43	15·00	16·71	0	2
September	18·33	16·10	17·35	0	9	18·96	17·00	17·98	0	2
October	18·84	16·99	17·75	0	9	15·03	12·64	13·83	0	2
November	17·61	16·80	17·23	0	8	20·27	17·28	18·77	0	2
December	17·83	16·05	16·91	0	9	20·21	15·31	17·76	0	2
January	16·98	16·11	16·51	0	9	18·17	16·87	17·50	0	2
February	16·47	16·00	16·18	0	8	19 02	17·40	18·21	0	2
March	16·44	16·01	16·24	0	9	14·28	11 80	13·04	0	2
				0	105				0	24
Quebec—										
April						21·62	21·17	21·39	0	2
May						17·18	16·80	16·99	0	2
June						19·42	17·79	18·60	0	2
July						18·38	16·84	17·61	0	2
August						16·99	16·94	16·96	0	2
September						19·77	18·54	19·15	0	2
October	17·75	17·59	17 67	0	2	17·97	13·75	15·86	0	2
November	17·88	17·78	17·83	0	2	18·15	15·25	16·70	0	2
December	17·72	17·58	17·65	0	2	18·09	14·81	16·45	0	2
January	17 96	17·73	17·79	0	2	20·59	16·80	18 69	0	2
February	18·00	17·59	17·79	0	2	18·83	17·03	17·93	0	2
March	17·71	17·00	17·35	0	2	19·55	16·84	18·19	0	2
				0	12				0	24
Sherbrooke—										
April			32·53	0	1					
May			30·66	0	1					
June			27·94	0	1					
July			28·21	0	1					
August			24·77	0	1					
September			28·27	0	1					
October			31·05	0	1					
November			25·05	0	1					
December			28·33	0	1					
January			29·06	0	1					
February			26·29	0	1					
March			22·42	0	1					
				0	12					

SESSIONAL PAPER No. 13

Continued.

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sol. Hydrogen.			Remarks.
Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests	
Grains.	Grains.	Grains.						
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	...	.....	1	0	1	
.....	.....	.....	.....	....	1	0	1	
.....	.....	.....	....	.....	1	0	1	
.....	.....	.....	...	.....	1	0	1	
.....	.....	.....	.....	..	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
					12	0	12	
0·00	0·00	0·00	0	2	14	0	14	
0·00	0·00	0·00	0	2	14	0	14	
0·00	0·00	0·00	0	2	12	0	12	
0·00	0·00	0·00	0	2	14	0	14	
0·00	0·00	0·00	0	2	14	0	14	
0·00	0·00	0·00	0	2	14	0	14	
0·00	0·00	0·00	0	2	14	0	14	
0·00	0·00	0·00	0	2	12	0	12	
0·00	0·00	0·00	0	2	14	0	14	
0·00	0·00	0·00	0	2	14	0	14	
0·00	0·00	0·00	0	2	12	0	12	
0·00	0·00	0·00	0	2	14	0	14	
			0	24	162	0	162	
0·00	0·00	0·00	0	2	.....	.....	... .	
0·06	0·00	0·00	0	2	.....	.....	.... .	
0·00	0·00	0·00	0	2	...	.. .	.....	
0·00	0·00	0·00	0	2	.....	.....	.....	No photometric tests made on account of repairs.
0·00	0·00	0·00	0	2	.....	.....	... .	
0·00	0·00	0·00	0	2	.....	....	.....	
0·00	0·00	0·00	0	2	2	0	2	
0·00	0·00	0·00	0	2	2	0	2	
0·00	0·00	0·00	0	2	2	0	2	
0·00	0·00	0·00	0	2	2	0	2	
0·00	0·00	0·00	0	2	2	0	2	
			0	24	12	0	12	
.. ....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	1	0	1	
.....	.....	.... ..	.....	.....	1	0	1	
.....	.....	.....	..	.....	1	0	1	
.....	.....	....	.....	.....	1	0	1	
.....	.....	.....	.....	. .	1	0	1	
.....	.....	.....	.....	. . ..	1	0	1	
.....	.....	.....	....	.....	1	0	1	
.....	.....	....	.....	.....	1	0	1	
.....	.....	.....	. ..	.....	1	0	1	
.....	.....	.....	....	.....	0	1	1	
.....	....	.....	.. ..	.....	1	0	1	
					11	1	12	

APPENDIX F—

Return of Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
St. Hyacinthe—										
April			18·62	0	1					
May			18·52	0	1					
June			18·34	0	1					
July			18·72	0	1					
August			18·24	0	1					
September			18·32	0	1					
October			18·48	0	1					
November			18·60	0	1					
December			18·84	0	1					
January			18·84	0	1					
February			18·92	0	1					
March			18·24	0	1					
				0	12					
St. John—										
April								18·36	0	1
May								20·08	0	1
June								22·25	0	1
July								21·09	0	1
August			17·50	0	1			22·20	0	1
September			17·54	0	1			20·85	0	1
October			17·91	0	1			20·51	0	1
November			17·45	0	1			22·46	0	1
December			17·64	0	1			23·57	0	1
January			17·60	0	1			25·13	0	1
February			17·41	0	1			23·06	0	1
March			17·53	0	1			23·91	0	1
				0	8				0	12
Moncton—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Halifax—										
April			16·59	0	1			11·08	0	1
May			17·19	0	1			11·84	0	1
June			16·65	0	1			15·26	0	1
July			16·67	0	1			21·62	0	1
August			17·04	0	1			15·28	0	1
September			17·08	0	1			6·65	0	1
October			16·91	0	1			12·92	0	1
November			16·13	0	1			21·14	0	1
December			17·19	0	1			23·82	0	1
January			16·72	0	1			6·46	0	1
February			16·66	0	1			11·82	0	1
March			17·07	0	1			21·58	0	1
				0	12				0	12

SESSIONAL PAPER No. 13

Continued.

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sol. Hydrogen.			Remarks.
Highest	Lowest.	Average.	No. of times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
								Ill. power not taken ; apparatus out of order.
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					8	0	8	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	

APPENDIX F—

RETURN of Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Yarmouth—										
April	12·21	11·50	11·85	2	2					
May			16·29	0	1					
June			17·71	0	1					
July			16·65	0	1					
August			17·19	0	1					
September			17·37	0	1					
October			17·91	0	1					
November			16·60	0	1					
December			16·77	0	1					
January			16·00	0	1					
February			10·87	1	1					
March			13·35	1	1					
				4	13					
Charlottetown—										
April			14·91	1	1					
May			15·73	1	1					
June			16·91	0	1					
July			17·50	0	1					
August			15·16	1	1					
September			16·10	0	1					
October			16·02	0	1					
November			17·85	0	1					
December			15·21	1	1					
January			15·89	1	1					
February			18·11	0	1					
March	17·80	14·67	16·54	1	4					
				6	15					
Winnipeg—										
April	15·80	13·15	14·00	8	8					
May	15·00	14·07	12·90	10	10					
June	15·60	15·09	14·53	8	8					
July	16·30	13·40	15·28	9	10					
August	16·80	15·43	14·00	6	8					
September	16·80	15·80	14·30	4	8					
October	16·70	14·30	15·99	2	8					
November	17·60	14·12	16·44	2	8					
December	16·34	13·06	14·45	9	10					
January	16·42	14·60	15·79	3	8					
February	16·61	14·83	15·51	7	8					
March	16·18	15·11	13·60	7	8					
				75	102					
Calgary—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										

SESSIONAL PAPER No. 13

Continued.

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sol. Hydrogen.			Remarks.
Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests	No. of times absent.	No. of times present.	No. of tests	
Grains.	Grains.	Grains.						
					2	0	2	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					13	0	13	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					0	4	4	
					11	4	15	
					8	0	8	
					10	0	10	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					8	0	8	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					8	0	8	
					102	0	102	
					1	1	2	
					1	1	2	
					2	0	2	
					4	0	4	
					3	1	4	
					5	0	5	
					4	0	4	
					3	1	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					41	4	45	

5 GEORGE V., A. 1915

APPENDIX F—

RETURN of Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Vancouver—										
April	17·50	15·90	16·76	1	8					
May	17·80	15·50	16·71	1	10					
June	19·00	16·20	17·40	0	8					
July	19·70	15·00	16·97	3	10					
August	19·10	15·90	16·88	1	8					
September	19·40	16·80	17·71	0	8					
October	23·50	16·00	17·91	0	10					
November	17·17	13·60	16·00	3	8					
December	18·70	14·80	16·94	3	10					
January	17·00	16·10	14·60	2	6					
February	17·00	15·75	16·50	1	8					
March	18·10	14·23	16·28	2	8					
				17	102					
New Westminster—										
April			21·41	0	1					
May			21·67	0	1					
June			20·93	0	1					
July			19·50	0	1					
August			19·91	0	1					
September			20·05	0	1					
October			19·61	0	1					
November			19·42	0	1					
December			19·35	0	1					
January			19·51	0	1					
February			19·42	0	1					
March			19·25	0	1					
				0	12					
Nelson—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Victoria—										
April			13·90	1	1					
May	16·15	15·04	15·59	1	2					
June	15·20	14·75	14·97	2	2					
July	14·27	14·03	14·15	2	2					
August	14·30	14·07	14·16	2	2					
September	14·55	13·57	14·06	2	2					
October	16·20	15·70	15·95	1	2					
November	15·00	14·20	14·60	2	2					
December	13·50	13·10	13·30	2	2					
January	14·20	13·90	14·05	2	2					
February	13·40	12·80	13·10	2	2					
March	14·20	13·89	14·04	2	2					
				21	23					

SESSIONAL PAPER No. 13

Continued.

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					8	0	8	
					10	0	10	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					10	0	10	
					8	0	8	
					10	0	10	
					6	0	6	
					8	0	8	
					8	0	8	
					102	0	102	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					23	0	23	

5 GEORGE V., A. 1915

APPENDIX F—

Return of Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Nanimo—										
April			16·09	0	1					
May			17·10	0	1					
June			16·60	0	1					
July			17·20	0	1					
August			16·83	0	1					
September			17·01	0	1					
October			16·30	0	1					
November			16·41	0	1					
December			16·59	0	1					
January			16·94	0	1					
February			16·51	0	1					
March			16·30	0	1					
				0	12					
Guelph—										
April			20·64	0	1					
May			19·8	0	1					
June			19·29	0	1					
July			20·18	0	1					
August			20·84	0	1					
September			19·20	0	1					
October			20·63	0	1					
November			20·68	0	1					
December			19·58	0	1					
January			20·12	0	1					
February			20·05	0	1					
March			20·34	0	1					
				0	12					

Inland Revenue Department,
Ottawa, June 1, 1914.

Concluded.

Inspected during the Year ended March 31, 1914.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sol. Hydrogen.			Remarks.
Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.	No. of times present.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					21	0	21	

W. HIMSWORTH,
Deputy Minister.

APPENDIX G.

STATEMENT showing the number of Gas Meters Presented for Verification, Verified, Rejected and Verified after first Rejection, for the Fiscal Year ended March 31, 1914.

Districts.	Presented for Verification.	Kind.		Verified as coming within the error tolerated by law.			Rejected.			Verified after first Rejection.			Totals.	
		Wet.	Dry.	Correct.	Fast.	Slow.	Unsound.	Fast.	Slow.	Correct.	Fast.	Slow.	Verified.	Rejected.
Belleville	1,892	....	1,892	703	260	895	3	19	12	....	....	....	1,858	34
Berlin	74	....	74	12	62	....	....	....	....	....	....	....	74	....
Brockville	80	....	80	45	13	21	1	....	....	....	....	....	79	1
Cobourg	15	....	15	....	6	8	....	....	1	....	....	....	14	1
Hamilton	9,560	....	9,560	3,504	598	5,458	....	....	....	....	....	....	9,560	73
London	6,828	....	6,828	1,737	1,133	3,885	....	36	37	....	....	....	6,755	....
Ottawa	4,236	....	4,236	267	79	3,890	....	....	....	....	....	....	4,236	....
Owen Sound	12	....	12	12	....	....	....	....	....	....	....	....	12	....
Peterborough	114	....	114	44	2	68	....	....	....	....	....	....	114	....
Sarnia	39	....	39	27	3	8	1	....	....	....	....	....	39	....
Woodstock	28	....	28	....	10	18	....	....	....	....	....	....	28	....
Toronto	24,098	....	24,098	8,202	2,466	13,234	....	124	72	....	....	....	23,902	196
Montreal	28,067	...	28,067	4,252	9,359	14,094	111	167	84	....	....	....	27,705	362
Quebec	884	....	884	363	28	493	....	....	....	....	....	....	884	....
Sherbrooke	182	....	182	75	57	50	....	....	....	....	....	....	182	....
St. Hyacinthe	157	....	157	103	19	35	....	....	....	....	....	....	157	....
St. John	1,192	....	1,192	629	34	528	....	....	1	....	....	....	1,191	1
Halifax	209	....	209	119	27	63	....	....	....	....	....	....	209	....
Charlottetown	25	....	25	2	5	9	7	....	2	....	....	....	16	9
Winnipeg	4,463	....	4,463	2,110	933	1,393	....	12	3	3	4	5	4,436	27
Calgary	569	....	569	45	41	444	....	25	1	....	....	....	543	26
New Westminster	4	....	4	1	....	3	....	....	....	....	....	....	4	....
Vancouver	4,348	....	4,348	1,007	845	2,389	....	17	63	7	9	11	4,241	107
Victoria	1,056	....	1,056	369	273	414	....	....	....	....	....	....	1,056	....
Totals	88,132	....	88,132	23,641	16,253	47,400	123	400	276	10	13	16	87,295	837

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

APPENDIX H.

STATEMENT of Electric Light Expenditures and Revenues for the Fiscal Year ended March 31, 1914.

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance	Rent.	Travelling Expenses.	Sundries.	Total.	
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Belleville	Fraser, H.	1,299 93	5 00		206 55	10 08	1,521 56	1,691 25
Fort William	Little, E.	1,200 00	40 00		214 10	116 98	1,571 08	1,816 45
Hamilton	*Lutz, H.				680 00	2 00	682 00	7,914 25
London	*Nash, A. F.		354 75		683 25	28 50	1,066 50	4,864 20
Ottawa	*Roche, H. G.							
	*Couvrette, A.A				670 70	0 75	671 45	4,961 75
Toronto	*Stiver, J. L.				906 55	80 63	987 18	15,487 45
Special	Kinsman, E. A.	1,133 28					1,133 28	
	Ontario	3,633 21	399 75		3,861 15	238 94	7,633 05	36,735 35
Montreal	*Aubin, A.		971 94		99 15	24 49	1,095 58	12,341 35
Quebec	*Le Vasseur, N.		100 00	450 00	27 80	109 20	687 00	1,383 20
Sherbrooke	*Simpson, A. F.				122 96	26 60	149 56	586 05
St. Hyacinthe	Provost, J. E.	300 00			320 70	5 15	625 85	702 15
Three Rivers	Robitaille, G. W							
	Olivier, A	350 75		125 00	40 35	12 40	528 50	105 95
	Quebec	650 75	1,071 94	575 00	610 96	177 84	3,086 49	15,118 70
St. John, N.B.	*Wilson, J. E				211 59	10 34	221 93	1,348 40
Halifax, N.S.	*Toale, John		60 00		586 58	85 58	732 16	1,905 75
Charlottetown, P.E.I.	*Bell, J. H.		60 00		34 15	14 21	108 36	295 95
Winnipeg, Man	*Hamilton, R.		1,233 24	300 00	379 10	143 84	2,056 18	7,054 10
Regina, Sask.	Hunter, W. M.							
	Hart, S. N.	1,699 96			1,197 60	131 51	3,029 07	3,255 00
Calgary	Kyle, W. P. / Jones, B. B.	2,700 00	25 00		256 30	108 17	3,089 47	2,294 25
Edmonton	Roe, E. A	604 83			914 30	193 96	1,713 09	3,155 25
	Alberta	3,304 83	25 00		1,170 60	302 13	4,802 56	5,449 50
Vancouver	Stott, Jas. / Templeton, W. A. / Power, O. S. / Scouler, G. T / Wolfenden, W	5,516 48	900 00		604 50	120 60	7,141 58	6,142 20
Victoria	Dresser, F.*		48 00		179 10	111 33	338 43	2,686 50
	British Columbia	5,516 48	948 00		783 60	231 93	7,480 01	8,828 70
Yukon	MacDonald, J.F.	375 28					375 28	
Chief Electrical Engineer			157 00		323 47	370 72	851 19	
Inspector of Eastern Dominion	Lambe, A. B.	2,574 93			292 25		2,867 18	

* For salaries, see Gas, Appendix E.

APPENDIX H—*Concluded.*

STATEMENT of Electric Light Expenditures and Revenues for the Fiscal Year ended March 31, 1914.

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance	Rent.	Travelling Expenses.	Sundries.	Total.	
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Inspector of Western Dominion	Higman, O., jr.	2,574 93	499 98	.....	371 96	98 26	3,545 13	.....
	Total for Districts, etc	20,330 37	4,454 91	875 00	9,323 01	1,805 30	36,788 59	79,991 45
Electrical Export Licenses								450 00
Electrical Standards, Laboratory Fees								35 05
General Contingencies						10,788 27	10,788 27	
Printing						5 75	5 75	
Stationery						422 25	422 25	
International Electro-technical Commission						243 61	243 61	
Provisional allowance						1,886 82	1,886 82	
	Grand totals	20,330 37	4,454 91	875 00	9,323 01	15,152 00	50,135 29	80,476 50

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

APPENDIX I.

STATEMENT showing the number of Electric Meters Presented for Verification, Verified, Rejected and Verified after first Rejection, for the fiscal year, ended March 31, 1914.

Districts.	Presented for Verification.	Verified as coming within the error tolerated by law.			Rejected.			Verified after first Rejection.			Totals.	
		Correct.	Fast.	Slow.	Unsound.	Fast.	Slow.	Correct.	Fast.	Slow.	Verified.	Rejected.
Belleville	2,753	995	1,312	442	.. .	3	1	....	....	....	2,749	4
Fort William	3,937	1,332	1,311	1,264	....	12	18	....	....	....	3,907	30
Hamilton	12,428	8,855	1,231	2,341	....	....	1	....	....	....	12,427	1
London	7,696	2,798	2,820	2,069	....	5	4	....	....	....	7,687	9
Ottawa	8,108	1,369	4,199	2,506	9	7	18	....	....	...	8,074	34
Toronto	23,829	13,238	7,178	3,405	...	1	7	....	....	....	23,821	8
Montreal	20,486	18,242	1,701	539	....	3	1	....	....	...	20,482	4
Quebec	2,263	1,232	601	430	...	...	...	....	....	....	2,263	
Sherbrooke	941	375	238	328	....	....	....	....	....	....	941	
St. Hyacinthe,	1,157	305	655	192	....	3	2	....	...	....	1,152	5
Three Rivers	157	136	16	5	....	....	....	....	....	....	157	
St. John	2,210	1,008	662	529	5	2	3	1	...	....	2,199	11
Halifax	3,032	1,984	464	539	36	3	6	....	...	....	2,987	45
Charlottetown	490	178	71	226	....	1	14	...	...	....	475	15
Winnipeg	11,014	2,916	7,355	733	....	1	9	.. .	....	...	11,004	10
Regina	5,325	1,830	2,167	1,320	3	3	2	...	....	....	5,317	8
Calgary	3,706	1,347	1,976	371	....	8	4	.. .	....	....	3,694	12
Edmonton	5,143	1,709	2,938	472	1	13	10	....	....	...	5,119	24
Vancouver	9,845	2,881	5,838	1,122	....	4	....	..	....	....	9,841	4
Victoria	4,175	2,152	1,085	938	....	....	..	....	....	....	4,175	
Totals	128,695	64,882	43,818	19,771	54	69	100	1	...	...	128,471	224

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1914.

APPENDIX J.

STATEMENT showing amount of Electrical Energy, Gas, or Fluid generated or produced for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the year ending March 31, 1914.

Name of Contractor and Place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.
Canadian Niagara Power Company, Niagara Falls, Ontario.	April	31,761,460	4,860·24	1,104,540	169·02	32,866,000	5,029·26
	May.	32,746,370	5,010·95	1,068,630	163·52	33,815,000	5,174·48
	June.	30,759,160	4,706·86	990,840	151·62	31,750,000	4,858·48
	July..	32,667,130	4,998·83	790,870	121·02	33,458,000	5,119·85
	August.	32,593,310	4,987·53	762,690	116·71	33,356,000	5,104·24
	September.	33,336,340	5,101·23	873,660	133·69	34,210,000	5,234·92
	October	35,564,650	5,442·21	727,350	111·30	36,292,000	5,553·51
	November.	34,426,130	5,268·00	946,870	144·89	35,373,000	5,412·89
	December.	36,605,590	5,601·50	988,410	151·25	37,594,000	5,752·75
	January	34,242,010	5,239·82	1,060,990	162·36	35,303,000	5,402·18
	February	30,098,380	4,604·75	1,089,620	166·74	31,188,000	4,771·49
	March	35,414,450	5,419·23	1,015,550	155·40	36,430,000	5,574·63
	Totals	400,214,980	61,241·15	11,420,020	1,747·53	411,635,000	62,988·68
Electrical Development Company of Niagara Falls, Ontario.	April	3,173,000	485·54	13,199,585	2,019·84	16,372,587	2,505·38
	May	3,253,000	497·78	14,145,715	2,164·63	17,398,715	2,662·41
	June	3,508,000	536·81	13,818,110	2,114·49	17,326,110	2,651·30
	July.	3,190,000	488·14	13,456,931	2,059·22	16,646,931	2,547·36
	August.	2,795,000	427·70	14,608,579	2,235·45	17,403,579	2,663·15
	September.	5,502,000	841·93	16,056,268	2,456·98	21,558,268	3,298·91
	October	6,648,000	1,017·30	17,535,284	2,677·13	24,183,284	3,694·43
	November.	7,176,000	1,091·97	19,475,298	2,980·17	26,611,298	4,072·14
	December.	3,367,000	515·23	20,607,466	3,153·42	23,974,466	3,668·65
	January.	3,582,000	541·13	17,242,285	2,638·47	20,824,285	3,186·60
	February	.....	.....	15,405,113	2,357·34	15,405,113	2,357·34
	March	.....	.....	16,335,036	2,499·64	16,335,036	2,499·64
	Totals	42,154,000	6,443·53	191,885,670	29,356·78	234,039,670	35,800·31
Ontario Power Company of Niagara Falls, Ontario.	April	23,052,194	3,527·52	28,713,006	4,393·75	51,765,200	7,921·27
	May	22,699,754	3,473·59	28,601,146	4,376·64	51,300,900	7,850·23
	June.	21,695,278	3,319·88	27,810,022	4,255·58	49,505,30	7,575·46
	July	22,683,914	3,471·17	31,987,386	4,894·88	54,671,300	8,366·05
	August.	23,817,398	3,644·61	31,749,602	4,858·43	55,567,000	8,503·04
	September.	24,991,888	3,821·34	35,043,912	5,362·53	60,035,80	9,186·87
	October	26,085,686	3,991·71	36,707,714	5,617·13	62,793,400	9,608·84
	November.	24,114,596	3,690·09	36,619,504	5,603·63	60,734,100	9,293·72
	December.	24,586,826	3,762·35	38,211,274	5,847·21	62,798,100	9,609·56
	January	24,625,348	3,768·25	39,226,752	6,002·69	63,852,100	9,770·85
	February	21,340,990	3,265·67	36,558,310	5,594·27	57,899,300	8,859·94
	March	22,429,132	3,432·18	41,369,268	6,330·45	63,798,400	9,762·63
	Totals	282,123,004	43,168·36	412,597,896	63,137·10	694,720,900	106,305·46

APPENDIX J—*Continued.*

STATEMENT showing amount of Electrical Energy, Gas, or Fluid generated or produced for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the year ending March 31, 1914.

Name of Contractor and Place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.
Ontario and Minnesota Power Co., Fort Frances, Ont.	April	1,745,360	267·13	78,688	12·04	1,824,048	279·17
	May	1,830,040	280·05	62,642	9·59	1,892,682	289·64
	June	1,766,850	270·37	43,505	6·66	1,810,355	277·03
	July	1,704,500	260·84	50,705	7·76	1,755,205	268·60
	August	1,761,600	269·57	53,810	8·23	1,815,410	277·80
	September	1,757,050	268·87	61,045	9·34	1,818,095	278·21
	October	1,875,180	286·95	76,404	11·69	1,951,584	298·64
	November	1,762,170	269·65	100,398	15·36	1,862,568	285·01
	December	1,813,310	271·16	101,968	15·60	1,915,278	286·76
	January	1,935,870	296·23	66,519	10·18	2,002,389	306·41
	February	1,784,137	273·01	86,459	13·23	1,870,596	286·24
	March	1,913,260	292·77	86,713	13·27	1,999,973	306·04
	Totals	21,649,327	3,306·60	868,856	132·95	22,518,183	3,439·55
Maine and New Brunswick Power Co., Aroostook Falls, N.B.	April	178,100	27·25	4,303	·66	182,403	27·91
	May	164,300	25·14	3,108	·49	167,480	25·63
	June	161,800	24·76	2,746	·42	164,546	25·18
	July	193,267	29·57	2,833	·43	196,100	30·00
	August	220,204	33·70	2,896	·44	223,100	34·14
	September	227,960	34·88	3,340	·51	231,300	35·39
	October	277,109	42·40	5,991	·92	283,100	43·32
	November	272,046	41·63	6,154	·94	278,200	42·57
	December	297,696	45·55	6,204	·95	303,900	46·50
	January	298,834	45·73	9,366	1·43	308,200	47·16
	February	278,600	42·63	5,265	·81	283,865	43·44
	March	276,100	42·25	5,689	·87	281,789	43·12
	Totals	2,846,016	435·49	57,967	7·87	2,903,983	444·36
British Columbia Electric Railway Co., Vancouver, B.C.	April	26,700	4·09	10,385,264	1,589·29	10,411,964	1,593·38
	May	19,085	2·92	10,123,301	1,549·10	10,142,386	1,552·02
	June	21,580	3·31	9,280,214	1,420·09	9,301,794	1,432·40
	July	26,420	4·04	9,151,806	1,400·44	9,178,226	1,404·48
	August	40,340	6·17	9,241,228	1,414·12	9,281,568	1,420·29
	September	36,250	5·55	9,368,486	1,433·59	9,404,736	1,439·14
	October	39,020	5·97	10,158,407	1,554·47	10,197,427	1,560·44
	November	39,820	6·09	10,148,830	1,553·01	10,188,650	1,559·10
	December	40,896	6·26	9,612,284	1,470·90	9,653,180	1,477·16
	January	39,700	6·08	9,541,800	1,460·12	9,581,500	1,466·20
	February	32,570	4·98	9,324,130	1,426·81	9,356,700	1,431·79
	March	33,450	5·12	8,361,650	1,279·62	8,395,100	1,284·74
	Totals	395,831	60·58	114,697,400	17,551·56	115,093,231	17,612·14

APPENDIX J—*Concluded.*

STATEMENT showing amount of Electrical Energy, Gas, or Fluid generated or produced for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the year ending March 31, 1914.

Name of Contractor and Place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.
Western Canada Power Company, Vancouver, B.C.	April	1,207,731	184·81	1,606,237	245·79	2,813,968	430·60
	May	1,688,100	258·32	3,997,520	611·71	5,685,620	870·03
	June	1,912,000	292·58	2,885,996	441·63	4,797,996	734·21
	July	1,651,760	252·76	3,297,430	504·58	4,949,190	757·34
	August	2,348,600	359·39	3,793,460	580·49	6,142,060	939·88
	September	2,566,700	392·76	2,980,070	456·02	5,546,770	848·78
	October	2,648,940	405·35	3,916,130	599·26	6,565,070	1,004·61
	November	2,460,000	376·44	3,847,960	588·83	6,307,960	965·27
	December	1,904,000	291·36	3,794,230	580·61	5,698,230	871·97
	January	1,076,818	164·78	3,511,086	537·28	4,587,900	702·06
	February	1,707,110	261·23	2,133,130	326·42	3,840,240	587·65
	March	2,042,142	312·50	3,575,990	547·21	5,618,140	859·71
	Totals	23,213,891	3,552·28	39,339,239	6,019·83	62,553,130	9,572·11

RECAPITULATION.

	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
	K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.
Ontario Power Co	282,123,004	43,168·36	412,597,896	63,137·10	694,720,900	106,305·46
Canadian Niagara Power Co.	400,214,980	61,241·15	11,420,020	1,747·53	411,635,000	62,988·68
Electrical Development Co.	42,154,000	6,443·53	191,885,670	29,356·78	234,039,670	35,800·31
‡International Railway Co.						
‡Electrie Distributing Co.						
Ontario and Minnesota Power Co	21,649,327	3,306·60	868,856	132·95	22,518,183	3,439·55
Maine & New Brunswick Electric Power Co.	2,846,016	435·49	57,967	7·87	2,903,983	444·36
‡Cedar Rapids Power and Manufacturing Co.						
‡Sherbrooke Railway and Power Co.						
British Columbia Electric Railway Co.	395,831	60·58	114,697,400	17,511·56	115,093,231	17,612·14
Western Canada Power Co.	23,213,891	552·28	39,339,239	6,019·83	62,553,130	9,572·11
Totals	772,597,049	118,207·99	770,867,048	117,955·62	1,543,464,097	236,162·61

‡ These companies have not yet commenced to export.

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1914.

REPORTS, RETURNS AND STATISTICS

OF THE

INLAND REVENUES

OF THE

DOMINION OF CANADA

FOR THE FISCAL YEAR ENDED MARCH 31

1914

PART III

ADULTERATION OF FOOD

PRINTED BY ORDER OF PARLIAMENT

OTTAWA
PRINTED BY J. DE L. TACHÉ, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1915

[No. 14—1915]—A

TABLE OF CONTENTS.

			Page.
Deputy Minister's Report			1
Chief Analyst's Report			3
Appendix A—Inspection of Maple Sugar			6
"	B	Maple Syrup	21
"	C	Bay Rum and Florida Water	40
"	D	Tonic Wines	54
"	E	Lime Fruit Juice	72
"	F	Cream of Tartar	79
"	G	Fertilizers	96
"	H	Seidlitz Powders	150
"	I	Linseed Oil	172
"	J	Meat Extracts	180
"	K	Headache Powders	200
"	L	Dried and Packaged Fruit	234
"	M	Table Salt	258
"	N	Mustard	275
"	O	Lard	295
"	P	Gelatin	314
"	Q	Lard and Lard Substitutes	334
"	R	Tomato Ketchup	360
"	S	Ice Cream	375
"	T	Tincture of Iodine	389
"	U	Infants and Invalids' Foods	399
"	V	Flour	410
"	W	Temperance Beverages and Soft Drinks	426
"	X	Butter	444
"	Y	Cattle Medicines	480
"	Z (1)	Ale (Beer)	496
"	Z (2)	Arsenate of Lead	508

REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

To the Honorable W. B. Nantel,
Minister of Inland Revenue.

Sir,—I have the honour to submit herewith a statement showing the work done by the Chief Analyst and Staff at Ottawa for the year ending the 31st March, 1914

Description.	Genuine.	Doubtful.	Adulterated.	Sold as Compound.	Total.	Remarks.
Maple Sugar	47	1	34	1	83	
Maple Syrup	86	3	37		128	1 lost through breakage in transit. One should not have been collected.
Bay Rum and Florida Water	60	2	4		70	35 Samples Bay Rum, 35 Samples of Florida Water, 4 samples illegally sold.
Tonic Wines	98				98	No Standards Estab'd. Nothing harmfull found in samples.
Lime Fruit Juice	5		15		30	10 Slightly below standard.
Cream of Tartar	143		5		148	94 Genuine Commercial Grade. 49 Genuine B.P. Standard.
Fertilizers	358		21		431	27 nearly meets Guarantee, 25 not sufficiently identified.
Seidlitz Powders	82		73		167	12 careless in weighing.
Linseed Oil	36	10	7		53	
Meat Extracts	Apparently genuine.				80	Solid meat extracts. .....12 Normal meat extracts. ..25 Fluid meat extracts.....42 Meat juice. . . 1 Total. . . . 80
Headache Powders	163		8		171	
Dried and Packaged Fruit	138	20	17		176	One Sample collected by mistake.
Table Salt					139	No standard established.
Mustard					167	No standard established.

Description.	Genuine.	Doubtful.	Adulterated.	Sold as Compound.	Total.	Remarks.
Lard	169	1	8	1	182	Three contain excess water...
Gelatin					161	No standards established.
Lard and Lard Substitutes	145 Lard not sold as lard.	7 Lard...	5 Lard. 3 Comp., 2 not sold as lard.	43 Genuine..	243	
Tomato Ketchup					70	No standards.
Ice Cream	77		49		137	8 Slightly below standard, 2 lost 1 sold as imtation.
Tincture of Iodine	62	2	8		72	
Infants and invalids food	86				86	
Flour	139				139	
Temperance beverages or soft srinks					150	No legal definition.
Butter	342		6		366	18 Passed as within remarkable limits of error
Cattle medicines					120	Explained in Bulletin 282.
Ale (beer)					75	Explained in Bulletin 283.
Arsenate of lead					82	Explained in Bulletin 284.

As stated in the report of last year, the Advisory Board on food standards having completed investigation, in regard to the following food products, standards have been established in connection therewith under the provisions of Sec. 26 of the Adulteration Act :—

Glucose Products.
Vinegar.

The standards covering fruit and fruit products were amended also, in order to define clearly the requirements as respects the labelling of jams, jellies and marmalades when prepared from two or more sorts of fruits.

During the current year it is hoped to complete the installation of branch laboratories at Halifax, Winnipeg and Vancouver, which will facilitate greatly the work of examination of samples and enable this branch of the Department to enlarge considerably the scope of its activities.

(Sgd) J. U. VINCENT,
Assistant Deputy Minister.

OTTAWA, Sept. 9, 1914.

J. U. VINCENT, ESQ.,
Asst. Deputy Minister,
Inland Revenue.

DEAR SIR,—I beg to submit the following report upon the work of these Laboratories for the year ending 31st March, 1914.

Samples of Foods, Drugs and Fertilizers, to the number of 3,825, have been officially collected by our inspectors and submitted to analysis. The results of their examination have been published from time to time in the form of Bulletins, in continuation of the series issued by this Department since 1887.

Number of Bulletin.	Subject.	Number of Samples.
258	Maple Sugar	83
259	Maple Syrup	128
260	Bay Rum and Florida Water	70
261	Tonic Wines	98
262	Lime Juice	30
263	Cream of Tartar	148
264	Fertilizers	131
265	Seidlitz Powders	167
266	Linseed Oil	53
267	Meat Extracts	80
268	Headache Powders	171
269	Dried and Packaged Fruit	176
270	Table Salt	139
271	Mustard	167
272	Lard	182
273	Gelatine	161
274	Lard and Lard Substitutes	243
275	Invalids and Infants' Foods	86
276	Ice Cream	136
277	Flour	141
278	Tincture of Iodine	72
279	Catsup	70
280	Ginger Ale, &c	150
281	Butter	366
282	Cattle Medicines	120
283	Ale (Beer)	75
284	Arsenate of Lead	82
	Total	3,825

The following occasional samples have been analysed and reported to the Deputy Minister :—

	Samples.
Acetic Acid	67
Arsenate of lead	3
Arsenic	1
Ambergris	1
Barbers' preparations	5
Brandy	1
Butter	245
Beer	45
Butter colour	1

	Samples.
Basic Slag	6
Bran	2
Burnt Barley	2
Brewers' Sugar	3
Condensed Milk	7
Cream of Tartar	11
Canned Peas	1
Clinker	1
Cloves	1
Coffee	1
Coal oil	1
Dried Egg	2
Dates	1
Dried Blood	1
Drug	1
Flour	17
Fertilizers	40
Flavouring Extracts	4
Figs	3
Fusel Oil	1
Golden Syrup	1
Ginger	1
Hoffmann's Drops	1
Honey	5
Horse Radish	1
Ice Cream	6
Ink	2
Jam	2
Kelp	2
Kieselguhr	1
Lard	7
Lime Juice	28
Licorice Powder	1
Lemon Oil	6
Liquid Soap	1
Linseed Oil	2
Milk Powders	4
Maple Butter	6
Maple Sugar	2
Maple Syrup	12
Milk	2
Methylated Spirits	7
Mace	1
Maple Cheese	1
Olive Oil	1
Preservaline	1
Pepper	2
Patent Medicine	1
Rice Meal	1
Sausage Preservative	2
Strychnine	1
Spirits	11
Sugar	1
Salt	1
Tomatoes	1
Tomato Pulp	1

	Samples.
Tea	1
Tablets	6
Tonic	1
Vanilla Extract	5
Vanilla Beans	1
Vinegar	5
Water	23
Wine	2
Total	645

The total number of analysis made is therefore 4470.

For the Excise Branch we have tested 357 samples of Vinagar from factories working in bond; and have supplied to these factories, and to the offices of the Collectors of Inland Revenue the following standardized solutions:

Winchesters of Normal Soda	98
Bottles of Normal Acid	9
Bottles of Phenolphthalein	20
Total	127

Investigatory work, having in view the establishment of Food Standards under the 26th Section of the Adulteration Act, has occupied a good deal of time; and the following standards have been authorized by Order in Council as indicated:

Glucose Products (G 1064) June 2, 1913.
Fruit and Products, amendment (G 1080) Sept, 4, 1913.
Vinegar (G 1096) Dec. 29, 1913.

It has long been felt that, having regard to the distance between the eastern and western boundaries of Canada, the establishment of branches of the Laboratory of the Inland Revenue at convenient points would greatly facilitate the effective administration of the Adulteration Act, the Fertilisers Act, and other Acts whose working is entrusted to this Department.

An Order in Council of the 16th October, 1913 provides for the establishment of sub-laboratories at Halifax, Winnipeg and Vancouver; and the erection and development of these will occupy the attention of the Executive of the Department for some time to come.

I havethe honour to be, Sir,
Your Obedient Servant,

A. McGILL.
Chef Analyst.

APPENDIX A.

BULLETIN No. 258 MAPLE SUGAR

OTTAWA, June 4, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report dealing with eighty-three (83) samples purchased by our inspectors as Maple Sugar in December and January last. Forty-seven (47) samples appear to be genuine, as judged by the standards legalized under Order in Council of October 27, 1911, and published as G. 994.

The remaining thirty-six samples must be regarded as adulterated or at least as doubtful. Two samples (Nos. 51651, 49820), I have judged as doubtful, on account of the analytical numbers coming very near the minima required by the standards; but the last named has since been acknowledged to be compound.

Many of the vendors have written me, since the collection was made, conceding that they knew the article offered as Maple Sugar to be a compound, and saying either that they sold it as such; or that they assumed the purchaser to be aware of the character of the article offered. Our inspectors' invoices and reports show all samples to have been received in answer to a demand for Maple Sugar.

Several samples are called by the manufacturers Maple Cream Sugar, and are invoiced as such to the retailer, who however sells them as Maple Sugar. A glance at the results of analysis of these samples (see Nos. 41509, 51510, 47926) show that they contain no more water than hard sugar, and cannot be regarded in any sense as Creams. Nor do they contain milk fat. The introduction of the word 'Cream' into the name cannot therefore be considered as justified.

There is a substance to be found on the market, commonly known as 'Maple Cream.' This is a soft sugar of somewhat the consistence of cream, and is an intermediate product between Maple Syrup and Maple Sugar. The article offered as 'Maple Cream Sugar' in no way resembles it, and must be held to be a sugar. If the word 'Cream' has any meaning at all in this connection, it can only be intended to call attention to the superiority of the article, as cream is superior to milk. Regarded in this light, it can only be held as an attempt to deceive the purchaser.

Another manufacturer claims that his product is not sold as Maple Sugar, but as M.S. Cakes. The same judgment must be passed upon this article.

As already stated in many previous reports, a mixture of ordinary sugar with Maple Sugar is a very palatable article, and no ground for complaint can be found for its appearance on the market. But it should be, and must be, plainly declared to be a mixture, or otherwise described in such a way as to prevent deception of buyers.

I beg to recommend publication of this report as Bulletin No. 258.

I have the honour to be, Sir,

Your Obedient Servant,

A. McGILL,

Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF NOVA-SCOTIA								
1913.								
Jan. 23	Maple Sugar.	46681	Ryan Bros., Truro, N.S.	1 lb.	20	M. Ross, Springhill, N.S.	Manufacturer.	
" 23	"	46682	R. T. Craig & Co., Truro, N.S.	1 "	20	"	"	
DISTRICT OF PRINCE-EDWARD ISLAND–								
Jan. 10	Maple Sugar.	46344	Auld Bros., Charlottetown, P.E.I.	1 lb.	15	Sugars & Canners, Ltd., Montreal.		Twin Bar
" 10	"	46345	"	1 "	15	Ramsay's Ltd., Montreal.		"
" 10	"	46346	Carvell Bros., Ch. Town, P.E.I.	1 "	15	Sugars & Canners, Ltd., Montreal.		Guaranteed pure maple and nothing else.
" 14	"	46347	A. Bowness, Kensington, P.E.I.	1 "	20	"		Twin Bar
" 14	"	46348	J. A. Hynes, Kensington, P.E.I.	1 "	20	"		"
" 14	"	46349	J. A. Leslie, Kensington, P.E.I.	1 "	20		Carvell Bros., Ch. Town, P.E.I.	"
DISTRICT OF NEW-BRUNSWICK–								
1912.								
Dec. 19	Maple Sugar.	50520	Pidgeon & Co., St. John, N.B.	1 lb.	16	H. S. Goddard, Elgin, N.B.		
" 21	"	50521	Ben. Robertson, St. John, N.B.	1 "	16		Keith & Co., St. John, N.B.	Product of Albert Co. N.B.
" 21	"	50522	Chas. F. Tilton, St. John, N.B.	1 "	20	Unknown.	Unknown.	Vendor would not guarantee purity.
" 23	"	50523	N. C. Scott, St. John, N.B.	1 "	10	"		"
1913.								
Jan. 7	"	50524	Geo. Dunphy, Fredericton, N.B.	1 "	15	Ed. Parent, Upper Queensbury, N.B.		
" 7	"	50525	Currie Bros., Fredericton, N.B.	1 "	15	M. Hagerman, Bear Island, N.B.		
" 9	"	50526	B. H. Smith & Sons, Woodstock, N.B.	1 "	25	Rowell Son & Co., Sherbrooke, P.Q.		
" 15	"	50527	Sussex Mercantile Co., Ltd., Sussex, N.B.	1 "	20	A. Parlee, Waterford, N.S.		
" 15	"	50528	S. L. Stockton, Petitcodiac, N.B	1 "	22	Unknown.	Unknown.	
" 15	"	50529	H. W. Church & Co., Petitcodiac, N.B.	1 "	15	"	"	

SESSIONAL PAPER No. 14

MAPLE SUGAR—*Continued.*

Results of Analysis

Water.	Solids.	Calculated to Water Free Basis. Lead Number, Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.									
p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
1·48	98·52	3 90						46681	Genuine.
1·98	98 02	4·38						46682	"
WM. A. WEEKS, INSPECTOR.									
2 24	97·76	0 02	0·06	0·06	0·00		None.	46344	Adulterated.
3·34	96·66	2 31						46345	Genuine
3·20	96·80	0 04	0·09	0 08	0·01		None.	46346	Adulterated.
0 80	99·20	1·16	0 44	0·28	0 16	1 75	0 26	46347	Adulterated Ticket in box says "Pure Maple Sugar."
1·60	98 40	0·88	0·42	0·29	0·13	2·23	0 12	46348	Adulterated.
2.20	97·80	0·02	0 11	0·06	0·05	1·20	0 08	46349	Aldulterated. On box. Guaranteed pure Maple Sugar.
J. C. FERGUSON, INSPECTOR.									
0 60	99 40	2·44						50520	Genuine.
2 18	97·82	2·81						50521	"
1 10	98 90	2·32						50522	"
1·12	98·88	3·33						50523	"
1·74	98·26	5·49						50524	"
2·78	97·22	2·03						50525	Meets standards.
4 60	95·40	3·29						50526	Genuine.
0·70	99·30	3 46						50527	"
0·80	99 20	4 31						50528	"
0 16	99 84	3·10						50529	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as Given by the Vendor. Manufactures.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
DISTRICT OF QUEBEC—								
1912.								
Dec. 23	Maple Sugar	37108	Elzéar Gagnon, 135 Rue D'Orchester, Quebec.	1 lb.	12	Unknown.....	Unknown. ...	.. ..
" 23	"	37109	J. D. Marier, 136 Rue D'Orchester, Quebec.	1 "	14	" ...	" ...	.. ....
" 23	"	37110	Boulet & Lamontagne, 105 Rue D'Orchester, Quebec.	2 "	28	Césaire Fillion, Chat. Richer	Mfr . ..	...
" 26	"	37111	Jos. Goslin, 50 Rue D'Orchester, Quebec.	1 "	20	Eubert Mitchell, St. Féréole.	"	.. ..
" 26		37112	Ed. Verreault, 204 Rue de la Reine, Quebec.	2 "	27	C. Premont, Chat. Richer.	"	....
" 26		37113	A. Cloutier, 132 Rue Laliberté, Quebec.	1 "	12	Unknown	T. B. E. Letellier, Quebec.	.. ...
" 27	"	37114	W. Haifield, 60 Rue Ste-Marguerite, Quebec.	1 "	16	Célestin Beaurivage, St-Michel.	Mfr	.....
" 27	"	37115	A. Lyonais, 51 Rue du Pont, Quebec.	2 "	20	Clish Preserv. Co., Joliette Co.	Mfrs	.
1913.								
Jan. 3	"	37116	L. Desgagne, 914 Rue St-Valier, Quebec.	3 "	45	J. Boilard, Ste. Catherine.	G. E. Hamel, 45 ave Parent, Co. Portneuf.	.....
" 3	"	37117	Cantin Frère, 271 Rue St-Joseph, Quebec.	1¼ "	17	J. D. Paré, St-Raymond.	" "	....
DISTRICT OF EASTERN QUEBEC—								
1912.								
Dec. 26	Maple Sugar.	53311	T. Theriant, Fraserville.	1 "	20	Unknown... ...	Unknown. ..	.
DISTRICT OF EASTERN TOWNSHIPS—								
1913.								
Jan. 28	Maple Sugar.	51141	Dean & Lacey, Sherbrooke.	1 "	20	.. ..	.. ..	....
" 28	"	51142	Bernard & Cie, Sherbrooke.	1 "	15	. .....	....	....
" 28	"	51143	D. M. Stenson, Sherbrooke	1 "	15	. ...	Vallelandry et frère, Danville, P.Q.	.. ..

SESSIONAL PAPER No. 14

MAPLE SUGAR—*Continued.*

Results of Analysis.

Water.	Solids.	Calculated to Water Free Basis. Lead Number: Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
F. X. W. E. BELAND, INSPECTOR.									
p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
4·16	95·84	4·36						37108	Genuine.
3·48	96·52	5·32						37109	"
7·06	92·94	4·43						37110	"
2·10	97·90	4·51						37111	"
3·46	96·52	5·90						37112	"
1·64	98·36	0·07	0·09	0·06	0·03	2·00	None.	37113	Adulterated.
6·44	94·56	3·91						37114	Genuine
1·46	98·52	0·04	0·07	0·07	None.		0·03	37115	Adulterated. Manufacturers invoice states "Spécialités Composées."
3·44	96·56	6·00						37116	Genuine.
1·56	98·44	7·32						37117	"
A. PELLETIER, INSPECTOR.									
0·52	99·48	5·50						53311	Genuine.
J. J. COSTIGAN, ACTING INSPECTOR.									
4·96	95·04	4·88						51141	Genuine.
0·80	99·20	4·73						51142	"
0·72	99·28	4·13						51143	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF EASTERN TOWNSHIPS—								
1913.								
Jan. 28	Maple Sugar.	51144	Lemay et Fissette, Sherbrooke.	1½ lb.	23			
" 28	"	51145	Herbert et Fortier, Sherbrooke.	1 "	14		J. T. Armstrong, Sherbrooke, P.Q.	
" 29	"	51146	Woodman & McKee, Coaticooke.	1 "	15			
" 29	"	51147	B. J. Smith & Son, Coaticooke.	1 "	12			
" 29	"	51148	Lovell Bros., Coaticooke.	1 "	12			
" 29	"	51149	D. S. Bachaud, Coaticooke.	1 "	8			
" 30	"	51150	L. Lafrance, Danville, P.Q.	1 "	12			
DISTRICT OF MONTREAL—								
Jan. 13	Maple Sugar.	51111	M. Galler, 1137 St. Lawrence Blvd., Montreal.	1 blk.	15		S. Zeidler, 765 Cadieux St.	
" 17	"	51112	J. D. Boileau, 54 Bonsecours St., Montreal.	1 "	28			
" 17	"	51113	L. Rochon, 524 Lagauchetiere St., E., Montreal.	1 "	12			
" 17	"	51114	"	1 "	10			
" 17	"	51115	H. Lagace, 252 Amherst St., Montreal.	1 "	25			
" 17	"	51116	R. Desautels, 141 Ontario St., E., Montreal.	1 "	15	Ramsay Bros.	Guerin, Langlois & Cie.	
" 17	"	51117	C. Guay & Co., 313 Ontario St., E., Montreal.	1 "	15	"	"	
" 17	"	51118	S. Dever & Son, 107 Colonial Ave., Montreal.	1 "	15			
" 18	"	51119	J. E. Courtemanche, 21 Rachel, St., E., Montreal	1 "	13		V. Charbonneau, 510 Panet St.	
" 18	"	51120	Geo. Ouellette, 209 DeMontigny, E., Montreal.	1 "	10	A. Raymond, Montreal.		

SESSIONAL PAPER No. 14

MAPLE SUGAR—*Continued.*

Results of Analysis.

Water.	Solids.	Calculated to Water Free Basis: Lead Number, Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
5·80	94·20	3 54	....	....	.....	.. ..	..	51144	Genuine.
9·40	99 60	4 41	..	.	.....	.. ....	. ... ..	51145	"
2·20	97·80	3·35	...	.. ..	.. ..	51146	"
5 40	94·60	4 65	.. .. ..	. ...	....	51147	"
2·36	97 64	2 99	.. ....	.. ..	.. ..	51148	"
3·04	96·96	2 20	.....	....	51149	"
2·66	97·34	0·08	0·12	0 09	0·03	3·00	0 16	51150	Adulterated. Vendor says was bought by him and sold as compound.

J. J. COSTIGAN, INSPECTOR.

0·56	99·44	0·70	0·44	0·25	0 19	1·30	0·02	51111	Adulterated. Wholesaler furnished a warrant of purity to vendor.
2 24	97 76	5·11	.	.. . .	51112	Genuine.
5 34	94·66	0·04	0·21	0·17	0·04	4 25	0 03	51113	Adulterated.
3·88	96·12	0·04	0·19	0 14	0 05	2·80	0·04	51114	"
5 00	95 00	4·04	....	51115	Genuine.
3·02	96·98	0·40	0·33	0 20	0·13	1·53	0·06	51116	Adulterated. Was sold to vendor as pure.
3·04	96·96	1·16	0·42	0·24	0·18	1·33	0 09	51117	Adulterated. Sold as having been re-melted, but pure.
2 50	97·50	4·40	....	. ....	51118	Genuine.
4 34	95·66	0·04	0 04	....	0 09	51119	Adulterated.
5 60	94 40	0 04	0·32	0·19	0·13	1 46	0·34	51120	Adulterated. A. Raymond later told vendor that the sugar was compound.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address, Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
						DISTRICT OF OTTAWA		
1912.								
Dec. 23	Maple Sugar.	51647	L. M. Davison, Kemptville.	1 cake	10	Unknown.	Abbot Grant & Co., Ltd., Brockville.	Sold as Maple Sugar.
" 26	"	51648	W. J. Martin, Buckingham.	1 "	10	Sugars & Canners, Ltd., Montreal.		Twin Blocks Pure Maple Sugar.
" 26	"	51649	P. Lamoureux & Cie, Dalhousie St., Ottawa.	1 "	38	Unknown.	Provost & Allard, Ottawa	
" 26	"	51650	A. E. Rea & Co., Ltd., Ottawa.	3 "	15	M. F. Goddard, Waterloo, P.Q.	Mfr.	
" 27	"	51651	Soubliere & Tremblay, Hull, P.Q.	1 "	10	Can. Maple Exchange, Ltd.	J. G. Whyte & Sons, Ottawa	Small's Maple Sugar.
" 28	"	51652	R. E. Powell, Wellington St., Ottawa.	1 "	20	M. F. Goddard, Waterloo, P.Q.	Mfr.	
" 28	"	51653	Gloucester Trading Co., Rideau St., Ottawa.	1 "	17	A. W. Westover, Sutton Jct., P.Q.	"	Pure Maple Sugar.
" 31	"	51654	Crabtree & Trawbridge, Elgin St., Ottawa.	3 "	30	W. F. Goddard, Waterloo, P.Q.		Vendors supplied the maple syrup to Goddard and he manufactured into sugar.
" 31	"	51655	D. A. Younghusband, Elgin St., Ottawa	3 "	30	Maple Tree Producers Asso'n. Montreal.	J. G. Whyte & Sons, Ottawa	Pride of Canada — Pure Maple Sugar
1913.								
Jan. 2	"	51656	G. W. Langdon, Elgin St., Ottawa.	1 "	10	Unknown.	C. E. Plain Ottawa.	
						DISTRICT OF TORONTO		
1912.								
Dec. 24	Maple Sugar.	51501	J. Munholland, 455 Young St., Toronto.	1 lb.	20		Maples Ltd., Toronto.	
" 24	"	51502	Kennedy Bros., 978 Queen St. E., Toronto.	1 "	20		" "	
26	"	51503	Roy Cook, 1914 Dundas St. W., Toronto.	1 "	20			
24	"	51504	E. S. Clark, 2010 Dundas St. W., Toronto.	1 "	16		McWilliams & Everst, Toronto.	

SESSIONAL PAPER No. 14

MAPLE SUGAR—*Continued.*

Results of Analysis.										
Calculated to Water Free Basis.										
Water.	Solids.	Lead Number, Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. A. RICKEY, INSPECTOR.									
p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
0·54	99·46	0·06	0·13	0·09	0·04	2·28	0·25	51647	Adulterated. Furnisher claims to sell as M. S. cakes; not as maple sugar.
4·92	95·08	0·06	0·10	0·07	0·03	2·33	0·05	51648	Adulterated.
4·70	95·30	4·03	..	....	...	....	.....	51649	Genuine.
2·20	97·80	2·25	.....	.....	...	.....	.....	51650	"
0·70	99·30	1·91	.....	.....	...	.....	.....	51651	Nearly meets standard. Doubtful.
4·50	95·50	2·97	.....	.....	...	.....	.....	51652	Genuine.
2·60	97·40	2·50	.....	.....	...	.....	.....	51653	"
3·86	96·14	3·41	.....	.....	...	.....	.....	51654	"
0·52	99·48	5·37	.....	.....	...	.....	.....	51655	"
2·70	97·30	1·44	0·37	0·23	0·14	1·64	0·05	51656	Adulterated.
H. J. DAGER, INSPECTOR.									
1·24	98·76	0·02	0·14	0·05	0.09	0·55	0·04	51501	Adulterated.
3·12	96·88	1·24	0·93	0·79	0·14	5·64	0·18	51502	"
2·60	97·40	1·08	0·29	0·17	0·12	1·41	0·05	51503	"
0·50	99·50	2·11	.....	.....	...	.....	.....	51504	Meets standard.

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF TORONTO								
1912.								
Dec. 27	Maple Sugar.	51506	F. F. Farewell, 489 Parliament St., Toronto.	1 lb.	20		Unknown.	
" 28	"	51507	Robt. Bell, 4737 Young St., Toronto.	1 "	20		Davidson & Hay, Ltd, Toronto.	
" 28	"	51508	R. Mathews, 509 Young St., Toronto.	1 "	20		Unknown	
1913.								
Jan. 2	"	51509	H. W. Scott, 266 Spadina Ave., Toronto.	1 "	20	Maples Ltd., Toronto.	Jno. Sloan & Co., Toronto	
" 3	"	51510	H. Coxwell, 17 Howard St., Toronto.	1 "	20		Clewes Bros., Toronto	Sample from Box labelled pure Maple Cream Sugar "Lion" Br'd Maples Ltd., Toronto.
" 7	"	51585	T. J. Medland, Ltd., 118 King St., Toronto.	1 "	13		G. H. Hall, Barnston, P.Q.	Sold as pure Maple Sugar
DISTRICT OF WINDSOR—								
1913.								
Jan. 2	Maple Sugar.	47901	E. Gallagher, Strathroy.	1 lb...	20	Unknown.		
" 2	"	47902	J. C. Fest, Strathroy.	3 bars.	30	"		
" 2	"	47903	Wm. Cross, Strathroy.	3 "	25	"		
" 2	"	47905	J. Madill, Strathroy.	1 lb...	23	"		
" 6	"	47920	Reeks & Co, St. Thomas.	3 bars.	25		M. Masuret & Co., London, Ont.	
" 7	"	47925	M. Masurett & Co., London, Ont.	3 "	20	Canada Maple Exchange.		
" 7	"	47926	Elliott Marr & Co, London, Ont.	3 "	22	Maples Ltd., Toronto.		Maple Cream Sugar.
" 7	"	47928	A. J. Clark & Co., London, Ont.	3 "	30	Maple Tree Producers Asso., Montreal.		

SESSIONAL PAPER No. 14

MAPLE SUGAR.—*Continued.*

Results of Analysis.

Water.	Solids.	Calculated to Water Free Basis. Lead Number Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash. / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded									
p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
0·90	99·10	0·04	0·17	0·10	0·07	1·42	0·01	51506	Adulterated.
0·50	99·50	0·72	0·46	0·24	0·16	1·50	0·05	51507	"
5·60	94·40	0·06	0·20	0·13	0·07	1·85	0·03	51508	"
3·94	96·06	0·24	0·37	0·21	0·16	1·31	0·00	51509	" Furnisher sells as Maple Cream Sugar.
3·32	96·68	0·10	0·17	0·12	0·05	2·46	0·02	51510	" " "
2·40	97·60	4·02	...	.....	.....	.....	.....	51585	Genuine.

JNO. TALBOT, INSPECTOR.

0·54	99·46	0·78	0·36	0·22	0·14	1·57	0·26	47901	Adulterated.
5·74	94·26	0·24	0·34	0·20	0·14	1·48	0·14	47902	"
0·06	99·40	2·48	.....	.....	.....	.....	.....	47903	Genuine.
0·70	99·30	0·56	0·34	0·14	0·20	0·70	0·34	47905	Adulterated.
5·04	94·96	0·26	0·28	0·13	0·15	0·86	0·39	47920	"
3·14	96·86	1·36	0·39	0·20	0·19	1·05	0·21	47925	"
5·80	94·20	0·30	0·26	0·16	0·10	1·60	0·07	47926	" "Maple Cream Sugar."
1·76	98·24	2·74	.....	.....	.....	.....	.....	47928	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
						DISTRICT OF ROCKY MOUNTAINS		
1913.								
Jan. 8	Maple Sugar	49813	Choquette Bros., Nelson, B.C.	1brick	40	N. Beauregard, West Shefford Stn., P.Q.		
Feb. 6	"	49819	C. B. Hume & Co., Revelstoke, B.C.	2cakes	20	Ramsay Bros., Vanc., B.C.		
" 14	"	49820	Wilson Grocery Co., Kamloops, B.C.	2 "	30	"		
" 14	"	49821	F. Lawrie, Kamloops, B.C.	3 "	30		W. H. Malkin & Co., Vancouver, B.C.	
						DISTRICT OF VANCOUVER—		
Feb. 25	Maple Sugar	53411	McTaggart's Grocery, Granville St., Vancouver, B.C.	3cakes	25			
						DISTRICT OF VICTORIA		
Jan. 15	Maple Sugar	53502	Acton Bros., 1317 Douglas St., Victoria, B.C.	1 lb.	25		Gavin Bros., Vancouver, B.C.	

SESSIONAL PAPER No. 14

MAPLE SUGAR.—*Concluded.*

Results Analysis.									
		Calculated to Water Free Basis.							
Water.	Solids.	Lead Number, Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
THOS. PARKER, INSPECTOR.									
p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
3·20	96·80	3·20	.....	.....	.....	.....	.....	49813	Genuine.
0·52	99·48	3·01	.....	.....	.....	.....	.....	49819	"
1·64	95·36	1·91	0·57	0·38	0·19	2·10	0·15	49820	Doubtful. Ramsay Bros. claim was sold for compound. Was invoiced as maple sugar.
0·84	99·16	3·18	.....	.....	.....	.....	.....	49821	Genuine.
J. F. POWER, INSPECTOR.									
2·50	97·50	1·26	0·47	0·28	0·19	1·46	0·26	53411	Adulterated.
D. O'SULLIVAN, INSPECTOR.									
2·34	97·66	0·92	0·14	0·07	0·07	1·00	0·09	53502	Adulterated.

APPENDIX B.

BULLETIN No. 259—MAPLE-SYRUP.

Ottawa, June 7, 1913

WM. HIMSWORTH, ESQ.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I have the honour to submit herewith a report upon 128 samples sold as maple syrup during the period, December, 1912, to April, 1913.

Of this number 86 samples are found to be genuine, in the sense that they meet standards for the article as legalized by Order in Council of October 27, 1911 (G. 994).

One sample was lost through breakage in transit (50515) and one sample was purchased by mistake (37102). This sample was plainly labelled as 'Compound,' and should not have been accepted by our inspector.

Three samples are judged as doubtful: the analytical numbers nearly meet legal requirements; but their character considered in relation to each other, is such as to justify doubt of genuineness.

Thirty-seven (37) samples are adulterated, as failing to meet legal requirements for maple syrup.

In several cases vendors have acknowledged that they sold artificial maple syrup, claiming unintentional oversight.

In many other instances the vendor claims to have acted in good faith, believing the article offered to be genuine maple syrup, having been purchased by him as such. Careful examination of the label, or of the form of warranty furnished by the manufacturer would have led him to see his mistake; and yet one cannot but surmise that, in some cases, the careful wording of these labels or guarantees, shows a desire on the part of the manufacturer to conceal the real nature of his goods.

While it is conceded that a mixture of maple syrup with cane sugar syrup may be a very desirable and entirely wholesome article, it is due to the producer of the genuine article that we require all mixtures of maple syrup with cane sugar syrup, or other wholesome diluent, to be plainly labelled in such a way that the purchaser shall be made fully aware of the nature of the article supplied to him.

I beg to recommend publication of this report as Bulletin No. 259.

I have the honour to be, Sir,
Your Obedient Servant,
A. McGILL,
Chief Analyst

Date of collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF NOVA SCOTIA—								
1913.								
Jan. 17	Maple Syrup.	46671	Bauld Bros., Ltd., Halifax, N.S.	1 pt..	26	Maple Tree Producers Ass'cn., Montreal.	Mfrs	
" 20	"	46672	Shand Bros., Ltd., Windsor, N.S.	1 " ..	30	D. A. Lavers, Southampton, N.S.	Mfr.	
" 20	"	46673	Murphy & Demont, Windsor, N.S.	1 " ..	40	Sugars & Canners Montreal.	Mfrs	Pure Maple Leaf Brand
" 22	"	46674	B. H. Doige, Kentville, N.S.	1 " ..	35	Canada Maple Exchange, Canada.	"	
" 23	"	46675	Colchester Co. Farmers Co-op. Ass. Truro, N.S.	1 " ..	35	T. Skidmore, Brown's Brook, N.S	Mfr	
" 24	"	46676	B. O. Bishop, Dartmouth, N.S	1 " ..	25	Imperial Syrup Co., Montreal.	Mfrs	
DISTRICT OF PRINCE EDWARD ISLAND—								
Jan. 4	Maple Syrup.	46334	Beer & Goff, Ch Town, P.E.I.	1 qt.	30	Sugars & Canners Ltd., Montreal		"Silver Bell" Brand. Pure Maple Syrup
" 7	"	46335	Sanderson & Co., Ch. Town, P.E.I	2 tins.	70	Imperial Maple Syrup Co., Montreal.		
" 8	"	46336	J. C. Crabbs, Ch. Town, P.E.I.	1 qt..	35	Canada Maple Exchange Ltd. Montreal.		
" 8	"	46337	W. W. Walker, Ch. Town, P.E.I.	2 bots	70	Standard Maple Exchange Ltd. Montreal.		
" 10	"	46338	Peter Trainor, Ch. Town, P.E.I.	1 qt..	40	Sugars & Canners Ltd., Montreal		"Silver Leaf" Brand guaranteed to be absolutely pure.
DISTRICT OF NEW BRUNSWICK—								
1912.								
Dec. 19	Maple Syrup. Honey.	50510	McPherson Bros., St. John, N.B.	2 bots	70	H. S. Colter, Upper Keswick, Ridge York Co., N.B.		
" 19	Maple Syrup	50511	W. A. Porter, St. John, N.B	2 "	60	M. J. Callicutt, Elgin, N.B.		Not sold as pure. Does not guarantee its purity was burned n boiling.

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Results of Analysis.

Water.	Solids.	Calculated to Water Free Basis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Lead Number Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash. / Insol. Ash.	Malic Acid Value.		
R. J. WAUGH, INSPECTOR.									
p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
33·45	66·55	3·92						46671	Genuine.
34·62	65·38	5·56						46672	"
34·72	65·28	0·48	0·35	0·24	0·11	2·18	0·03	46673	Adulterated.
35·99	64·01	1·68	0·59	0·40	0·19	2·22	0·34	46674	Doubtful.
35·67	64·33	5·90						46675	Genuine.
31·94	68·06	3·56						46676	"
WM. A. WEEKS, INSPECTOR.									
31·52	68·48	4·32						46334	Genuine.
31·19	68·81	0·34	0·36	0·26	0·10	2·60	None.	46335	Adulterated. Warranted free from glucose, preservative or acid.
39·49	60·51	2·61						46336	Genuine.
33·71	66·29	2·40						46337	"
34·00	66·00	0·54	0·31	0·24	0·07	3·34	0·08	46338	Adulterated.
J. C. FERGUSON, INSPECTOR.									
34·71	65·29	3·76						50510	Genuine.
33·15	66·85	4·57						50511	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF NEW BRUNSWICK—		
1912.								
Dec. 20	Maple Syrup Honey.	50512	Frank E. Williams Co., Ltd., St John, N.B.	2 bots.	70	W. B. Parent & Sons, Upper Queensbury, N.B.	.....	.....
" 23	"	50513	P. Nase & Son, St. John, N.B.	2 "	70	H. J. Hagerman Upper Bear Island, York Co. N.B.	.....	.....
1913.								
Jan. 7	"	50514	D. Lenihan, Fredericton, N.B.	1 qt...	30	C. Hallet, Upper Bear Island, York Co. N.B.	.....	.....
" 7	"	50515	Currie Bros., Fredericton, N.B.	2 bots.	56	A. Rossbrough, Bear Island, York Co. N.B.	.....	.....
" 9	Maple Syrup.	50516	M. S. Morehouse, Woodstock, N.B.	2 "	70	Imperial Syrup Co., Montreal.	.....	.....
" 14	"	50517	R. V. Allaby, Norton, N.B.	1 bot..	35	Jas. T. Allaby, Central Norton N.B.	.....	.....
" 16	"	50518	D. A. McBeath, Moncton, N.B.	1 qt...	40	C. W. Briggs, Stilesville, N.B	.....	.....
" 18	Maple Syrup Honey.	50519	J. E. Quinn, St. John, N B.	2 bots.	70	H. J. Hagerman Upper Bear Island, N.B.	.....	.....
						DISTRICT OF QUEBEC		
1912.								
Dec. 26	Maple Syrup.	37101	Jos. Goslin, 50 Rue Dorchester, Quebec.	2 bots.	30	Huot, Chateau Richer.	Mfr.	.....
" 27	"	37102	A. Lyonnais, 51 Rue du Pont, Quebec	1 qt...	25	Ramsay. Ltd....	"	Sold as Compound.
1913.								
Jan. 7	"	37103	L. F. Martel, 64 Rue du Pont, Quebec.	1 " ..	35	F. Beaudoin, BroughtonStn, Beauce Co.	"	.....
" 7	"	37104	C.O.Simard, 8 Rue St. Jean, Quebec	1 " ..	100	E. Albert Norris, Ste. Cecile de Milton.	"	.....
" 7	"	37105	F. Savard, 35 Rue St. Jean, Quebec	1 " ..	35	Tourangeau, Beauce.	"	.....
" 13	"	37106	A. Grenier, 94 Rue St. Jean, Quebec	2 bots.	70	Laperrière, St. Gervais, Co., Bellechasse.	"	.....
" 13	"	37107	"	2 " ..	70	Laliberté, Ste. Marguerite Co. Dorchester.	"	.....

SESSIONAL PAPER No. 14

MAPLE SYRUP.—*Continued.*

Results of analysis.									
		Calculated to Water Free Basis.							
Water.	Solids.	Lead number Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash. / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
33·88	66·12	4·44						50512	Genuine.
33·10	66·90	4·32						50513	"
32·20	67·80	3·30						50514	"
								50515	Samples broken in transit.
33·45	66·65	0·60	0·37	0·21	0·16	1·31	0·36	50516	Adulterated.
35·00	65·00	5·56						50517	Genuine.
32·49	67·51	4·02						50518	"
35·14	64·86	6·20						50519	"

F. X. W. E. BELAND, INSPECTOR.

34·79	65·21	5·48						37101	Genuine.
37·77	62·23	0·04	0·11	0·06	0·05	1·20	None	37102	Sold as compound.
31·02	68·98	5·04						37103	Genuine.
33·66	66·34	2·92						37104	"
37·89	62·11	6·20						37105	"
31·97	68·03	5·60						37106	"
36·67	63·33	5·46						37107	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Reports. (Is not an expression of opinion.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF QUEBEC								
1913.								
Jan. 3	Maple Syrup.	37298	Hamel & Bédard, 728 Rue St. Valier, Quebec.	2 bots.	60	Ludger Lawlor, Pont Rouge.		
" 3	"	37299	Cantinet Frère, 271 Rue St. Joseph, Quebec.	2 "	50	A. P. Ker, Quebec.		
" 3	"	37300	Myrand & Pouliot, 50 Rue de la Couronne, Quebec.	2 "	60	Jos. Thibeau, St-Augustin.		
DISTRICT OF EASTERN TOWNSHIPS								
Jan. 28	Maple Syrup.	51131	Dean & Lacey, Sherbrooke, P.Q.	1 qt.	30	S. R. Adams, Danville, P.Q.		
" 29	"	51132	Woodman & McKee, Coaticooke	1 "	35			
Feb. 11	"	51133	Tenny & Loisel, Waterloo, P.Q.	1 "	40	C. B. Laughlin, Brills, P.Q.		Marked pure.
" 11	"	51134	Neil Bros., Waterloo, P.Q.	1 "	35	John Taylor, Waterloo, P.Q.		
" 11	"	51135	W. R. Horner, Granby, P.Q.	1 tin.	30	F. U. Lynch, Granby, P.Q.		Labelled pure Maple syrup.
" 11	"	51136	Monty Bros., Granby, P.Q.	1 bot.	30		J. St. Jean, Granby.	
" 11	"	51137	Nelson Mitchell Co., Granby P.Q.	1 qt.	30	E. Streeter, Granby.		
" 11	"	51138	Beaudry & Beauchemin, Granby, P.Q.	1 "	40		J. Olmstead, Milton, P.Q.	
" 12	"	51139	P. Larochelle, Farnham, P.Q.	1 "	50	P. W. Beaudry, East Farnham		
" 12	"	51140	A. Robert, Farnham, P.Q.	1 "	50		J. D. Lafond, Freligsburgh, P.Q.	
DISTRICT OF MONTREAL—								
Jan. 23	Maple Syrup.	51101	James Graham, 4451 Rue Ste. Catherine, Westmount, P.Q.	1 bot.	40			"Silver Sheaf" Brand.
" 23	"	51102	King, Risdon & Co., 2206 Rue Ste. Catherine, Westmount, P.Q.	1 qt.	40	Can. Maple Syrup Exchange.		
" 23	"	51103	W. J. Winter, 1253 Greene Ave., Westmount, P.Q.	1 "	35	Sugar & Canners, Ltd.		"Silver Sheaf" Brand.
" 23	"	51104	J. A. Renaud, 622 Rue St. Antoine, Montreal.	1 "	30			

SESSIONAL PAPER No. 14

MAPLE SYRUP.—*Continued.*

Results of Aanalysis.

Water.	Solids.	Calculated to Water Free Basis. Lead Number Canadian.	Total Ash.	Water soluble Ash.	Insoluble Ash.	Water Sol. Ash. / Insol. Ash.	Malic Acid, Value.	No. of Sample.	Remarks and opinion of the Chief Analyst.
Concluded.									
p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
34·62	65·38	4·27						37298	Genuine.
31·69	68·31	3·06						37299	"
32·09	67·91	4·02						37300	

J. J. COSTIGAN, ACTING INSPECTOR.

35·01	64·99	2·00						51131	Genuine.
31·87	68·13	3·20						51132	"
36·69	63·31	3·11						51133	"
35·00	65·00	2·48						51134	"
33·09	66·91	2·52						51135	"
32·79	67·21	2·01						51136	"
33·72	66·28	2·60						51137	"
34·17	65·83	3·26						51138	"
32·66	67·34	2·30						51139	"
33·69	66·31	3·53						51140	"

J. J. COSTIGAN, INSPECTOR.

35·59	64·41	0·22	0·31	0·21	0·10	2·10	None.	51101	Adulterated.
30·67	69·33	0·10	0·29	0·18	0·11	1·65	"	51102	"
30·08	69·92	0·46	0·50	0·35	0·15	2·33	"	51103	"
34·37	65·63	0·06	0·17	0·15	0·02	7·50	"	51104	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vender. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion.)
DISTRICT OF MONTREAL—								
1913.								
Jan. 27	Maple Syrup.	51105	A. Theoret, 384 St. Antoine St., Montreal.	1 qt.	30	J. Mainville, Montreal.		
" 23	"	51106	J. N. Chartrand, 114 Fulford, Montreal	1 "	40	Alex. Petrie, Lachute, P.Q.		
" 24	"	51107	Swift Provision Store 2000 Waverly Montreal.	1 "	35			
" 24	"	51108	Rappaport Bros., 2068 St. Lawrence Bl'vd., Montreal.	1 "	20		V. Brosseau, Montreal.	
" 24	"	51109	A. Lamarche, 2101 St. Lawrence Bl'vd Montreal.	1 bot.	35			
" 24	"	51110	M. Goldberg & Co., 46 Cathcart St., Montreal.	1 qt.	30			
Apr. 14	"	51296	Ramsays Ltd., Nicolet St., Montreal.	3 tins.	90	Vendors.		Snow Shoe Brand.
" 14	"	51297	"	3 bots.	90	"		
DISTRICT OF OTTAWA—								
1912.								
Dec. 23	Maple Syrup.	51637	A. Parkinson & Son, Kemptville.	2 bots.	50	W. H. Buchanan, Mfr Kemptville.		
" 24	"	51638	W. West, Almonte.	1 gal.	100	Thos. Barr, Halls Mills.	"	
" 26	"	51639	W. J. Martin, Buckingham.	1 bot.	40	Canada Maple Exchange Ltd.	Cole & Co., Montreal.	Labelled "Small's Selected Maple Syrup."
" 26	"	51640	McCallum & Lahaie, Buckingham.	2 bots.	50	"	H. N. Bate & Sons, Ottawa.	Labelled "Pure Maple Syrup. "Monument" Brand
" 28	"	51641	R. E. Powell, Wellington St., Ottawa.	3 "	75	Maple Tree Producers' Association, Ltd., Montreal	Mfrs.	Labelled "Pride of Canada" Pure Maple Syrup, made from the sap of the maple tree and is absolutely pure.
" 28	"	51642	C. Moreland, Sparks St., Ottawa.	1 bot.	35	A. W. Westover, Sutton Jct., P.Q.	Mfr	Finest Eastern Townships Maple Syrup. Guaranteed pure.

SESSIONAL PAPER No. 14

MAPLE SYRUP.—*Continued.*

Results of Analysis.

Water.	Solids.	Calculated to Water Free Basis. Lead Number Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
34·85	65·15	0·02	0·18	0·15	0·03	5·00	None...	51105	Adulterated Vendor says "compound" sold by mistake.
31·28	68·72	4·36	.....	.....	.....	.....	.....	51106	Genuine.
32·52	67·48	4·20	.....	.....	.....	.....	.....	51107	"
34·79	65·21	0·10	0·19	0·18	0·01	.....	None..	51108	Adulterated
33·63	66·37	2·20	.....	.....	.....	.....	.....	51109	Genuine.
31·66	68·31	4·50	.....	.....	.....	.....	.....	51110	"
28·88	71·12	1·90	0·69	0·43	0·26	1·65	0·45	51296	"
29·13	70·87	1·90	0·61	0·36	0·25	1·44	0·29	51297	"
J. A. RICKEY, INSPECTOR.									
30·66	69·34	3·20	.....	.....	.....	.....	.....	51637	Genuine.
32·97	67·21	4·25	.....	.....	.....	.....	.....	51638	"
34·22	65·78	0·10	0·19	0·17	0·02	8·50	0·07	51639	Adulterated.
36·17	63·83	0·20	0·27	0·20	0·07	2·85	0·22	51640	"
31·25	68·75	2·93	.....	.....	.....	.....	.....	51641	Genuine.
32·35	67·65	3·40	.....	.....	.....	.....	.....	51642	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name of Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer of Furnisher as given by the Vendor. Manufacturer	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF OTTAWA—								
1912.								
Dec. 30	Maple Syrup.	51643	Bryson, Graham Ltd., Ottawa.	1 bot.	35	A. Brown, Philiphsville, Ont	Mfr.	
" 31	"	51644	Seely & Stewart, Bank St., Ottawa.	1 "	40	Maples Ltd., Toronto.		"Old Tyme" Pure Sap Maple Syrup. Guaranteed absolutely pure.
" 31	"	51645	J. C. Ray, Elgin St., Ottawa.	1 "	25	Unknown	J. Moyneur, Ltd., Ottawa.	Sold as Maple Syrup.
1913.								
Jan. 2	"	51646	Kavanagh Bros., Queen St., Ottawa.	1 qt.	45	G. B. Hall, Mfr Barnston, P.Q.		
DISTRICT OF KINGSTON—								
1912.								
Dec. 17	Maple Syrup.	53001	A. Glover, Kingston.	1 qt.	35	Small's		
" 18	"	53002	Wallbridge & Clark Belleville.	1 "	45	C. A. Westover, Frelyhsburg, P.Q.		
" 18	"	53003	E. Gullet, Cobourg	1 "	40	T. H. Lawrence,		
" 18	"	53004	Thompson Macdonald, Cobourg	1 "	30	G. Safford & Co., Sutton, P.Q.		
" 19	"	53005	G. O'Brien, Peterboro.	1 "	30	R. Neill, Waterloo, P.Q.		
" 19	"	53006	W. H. Hamilton, Petecboro.	1 "	35	E. B. Hall, Barnston, P.Q.		
" 19	"	53007	J. B. Bell, Peterboro.	1 "	35		Canada Maple Exchange Co.	
" 19	"	53008	E. F. Mason, Peterboro.	1 "	40	Small's	"	
" 19	"	53009	Duthou & Co., Peterboro.	1 "	40	"		
DISTRICT OF TORONTO—								
Dec. 20	Maple Syrup.	51511	J. H. Kerr, 408 Spadina Ave., Toronto.	1 qt.	40		L. H. Lawrence West Shefford, P.Q.	Sold as pure Maple Syrup
" 21	"	51512	John O'Neil, 105 Delaware Ave., Toronto.	1 "	35		White & Co., Ltd., Toronto	Guaranteed pure.
" 23	"	51513	W. Forester, 104 Queen St., East-Toronto.	1 "	35	Canada Maple Exchange.	Eby Blain Ltd. Toronto.	

SESSIONAL PAPER No. 14

MAPLE SYRUP.—*Continued.*

Results of analysis

Water.	Solids.	Calculated to Water Free Basis. Lead Number Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash. / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
34·74	65·26	2·88	.....	.....	.....	.....	.....	51643	Genuine.
34·25	65·75	0·22	0·31	0·24	0·07	3·42	0·06	51644	Adulterated.
34·45	65·55	0·10	0·21	0·15	0·06	2·50	0·17	51645	" Vendor explains was maple flavour syrup.
34·51	65·39	3·49	.....	.....	.....	.....	.....	51646	Genuine.
JAS. HOGAN, INSPECTOR.									
32·86	67·15	0·34	0·32	0·22	0·10	2·20	None.	53001	Adulterated.
33·67	66·33	3·50	.....	.....	.....	.....	.....	53002	Genuine.
32·12	67·58	2·54	.....	.....	.....	.....	.....	53003	"
33·77	66·23	2·54	.....	.....	.....	.....	.....	53004	"
33·47	66·53	3·56	.....	.....	.....	.....	.....	53005	"
33·67	66·33	2·06	.....	.....	.....	.....	.....	53006	"
34·81	65·79	0·30	0·16	0·12	0·04	3·00	None.	53007	Adulterated.
32·40	67·60	0·36	0·24	0·15	0·09	1·66	"	53008	" Label guarantees purity.
34·21	65·79	0·40	0·27	0·17	0·10	1·70	"	53009	Adulterated.
H. J. DAGER, INSPECTOR.									
33·52	66·48	2·07	.....	.....	.....	.....	.....	51511	Genuine.
33·33	66·67	4·50	.....	.....	.....	.....	.....	51512	"
36·62	63·38	0·14	0·06	.....	.....	.....	0·15	51513	Adulterated.

5 GEORGE V., A. 1915

BULLETIN No. 259—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
								DISTRICT OF TORONTO
1912.								
Dec 26	Maple Syrup.	51514	Birkett Bros., 1916 Dundas St., West, Toronto.	1 qt..	40		Maple Tree Producers Assn., Ltd., Montreal.	"Pride of Canada" pure maple syrup made from sap of maple tree only. Is absolutely pure.
" 27	"	51515	McDonald Bros., 1064 Yonge St., Toronto.	1 " ..	40		Parsons Brow & Co., Toronto.	"Snowshoe" Brand pure maple syrup. Imperial Syrup Co., Montreal.
1913.								
Jan 2	"	51517	Somers Bros., 291 King St., West, Toronto.	1 " ..	25		Rutherford Marshall & Co., Toronto	.....
" 2	"	51518	A. Copp, 1005 Dundas St., Toronto.	1 " ..	45		Parson Brown & Co., Toronto.	Labelled "Old Tyme" pure sap Maple syrup guarant'd absolut'ly pure. Maples Ltd., Toronto.
" 2	"	51519	Wm. Forster, 177 Roncensvalles St. Toronto.	1 " ..	40		G. B. Hall, Barnston, P.Q.	.....
" 3	"	51520	W. B. Rennick, 389 Church St., Toronto.	1 " ..	35		Unknown.	"Lion" Brand pure sap Maple Syrup Maples Ltd., Toronto.
" 4	"	51584	F. Spooner, 273 Church St., Toronto.	1 " ..	35	Canada Maple Exchange.	McLaren's Ltd Toronto.	Smalls Selected Maple Syrup. Guaranteed not only pure but of high grade
April 21	"	51598	Maples Ltd., Toronto.	3 pts..	60		Vendors..	"Old Tyme" pure sap maple syrup guaranteed absolutely pure. Canned as it comes direct from the sugar bush.
" 21	"	51599	"	1 qt..	35		"	"
May 8	"	57409	F. G. Parker, Broadview, Toronto	1 " ..	25		Unknown	Labelled and sold as maple syrup.

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Results of Analysis.										
		Calculated to Water Free Basis.								
Water.	Solids.	Lead Number Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
34·86	65 14	3·93	...	... ...	.... ..	.....	. . .	51514	Genuine.
34 04	65 96	2·01	.....	.....	.. ...	.. ..	....	51515	"
33·25	66 75	0 04	0 15	0·11	0·04	2 75	0·06	51517	Adulterated. Furnisher says was sold as a compound.
32·87	67·13	2 05	..	.. ..	..	. . . ..	... .	51518	Genuine.
33·64	66·36	3 58	.....	.....	. . . ..	.....	.....	51519	"
32·35	67·65	0·24	0 22	0·13	0·09	1·66	0·07	51520	Adulterated.
33·20	66·80	0·12	0·22	0·17	0·05	3·40	0 19	51584	"
39·00	61·00	4 16	0 69	0·36	0·33	1·09	0 90	51598	Genuine.
38·40	61 60	0 76	0·34	0 19	0·15	1 26	0·45	51599	Adulterated.
38·36	61·64	0 04	0·26	0·21	0·05	4 20	0·02	57409	" Vendor explains was made from sugar and mapleine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF HAMILTON								
1913.								
April 24	Maple Syrup.	57402	O. W. Bessey, 23-24 Market Hall, Hamilton.	1 qt..	25	....	C. W. Lamy & Sons, Hamilton.	.....
" 24	"	57403	David Green, 43-47 Market Hall, Hamilton.	1 " ..	30	.....	"	.....
DISTRICT OF WINDSOR—								
Jan. 3	Maple. Syrup.	47907	Fred. Williams, Woodstock, Ont.	3 jar..	30	J. B. Strong, West Sutton, P.Q.	.....	Guaranteed pure and warranted to be made from maple sap only.
" 3	"	47909	E. J. Coles Co., Woodstock, Ont.	3 " ..	30	.....	Omer Brown, Delta, Ont.	.....
" 3	"	47912	A. M. Smith & Son, Woodstock, Ont.	2 bots.	50	Maple Tree Producers'Ass'cn., Waterloo, P.Q.	.....	"Pride of Canada" Maple Sap Syrup, a genuine maple sap syrup, guar. absol. pure.
" 6	"	47919	Reeks & Co., St. Thomas, Ont.	1 bot..	35	Canada Maple Exchange, Ltd.	.....	Small's selected Maple Syrup, guar. notoniypure, but of high grade.
" 7	"	47924	M. Masuret & Co., London, Ont.	1 " ..	30	"	.....	Small's sel. Maple Syr., guar. pure..
" 7	"	47927	A. J. Clark & Co., London, Ont.	1 " ..	40	Maples, Ltd., Toronto.	.....	"Lion" Brand pure M. S.
" 7	"	47929	H. Ranahan, London, Ont.	1 " ..	35	Imperial Syrup Co., Montreal.	.....	"Snowshoe" Br., p. M. S.
" 7	"	47930	Thos. Shaw, London, Ont.	1 " ..	40	Maple Tree Producers'Ass'cn., Montreal.	.....	"Pride of Canada" p. M.S
" 7	"	47931	Ken. McCormick, London, Ont.	1 " ..	40	Imperial Syrup Co., Montreal.	.....	"Snowshoe" Brand, pure MapleSyrup.

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Results of Analysis.										
Calculated to Water Free Basis.										
Water.	Solids.	Lead Number Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
H. J. DAGER, ACTING INSPECTOR, D. M. CAMERON, INSPECTOR.									
32·80	67·20	0·08	0·14	0·10	0·04	2·50	0·19	57402	Adulterated. Vendor stated after sale that it was not pure.
33·00	67·00	0·04	0·06	0·03	0·03	1·00	0·04	57403	" "
JNO. TALBOT, INSPECTOR.									
33·13	66·87	2·53	.....	.....	.....	.....	.....	47907	Genuine.
33·59	66·41	4·14	.....	.....	.....	.....	.....	47909	"
36·89	63·11	3·89	.....	.....	.....	.....	.....	47912	"
34·42	65·58	0·34	0·27	0·19	0·08	2·12	None.	47919	Adulterated.
33·84	66·16	0·18	0·33	0·24	0·09	2·66	0·25	47924	"
32·25	67·75	0·82	0·27	0·17	0·10	1·70	None.	47927	"
35·75	64·25	1·28	0·47	0·31	0·16	1·93	0·14	47929	"
33·19	66·81	3·31	.....	.....	.....	.....	.....	47930	Genuine.
32·30	67·70	2·28	.....	.....	.....	.....	.....	47931	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
						DISTRICT OF MANITOBA—		
1913.								
Feb. 6	Maple Syrup.	48816	J. D. Score, Portage Ave., Winnipeg.	1 qt.	50	Maple Tree Producers' Ass'cn., Montreal.	Jobin, Marrin & Co., Winnipeg.	
" 6	"	48817	A. Hendry, 398 Portage Ave., Winnipeg.	1 "	50	"	Campbell Bros. & Wilson, Winnipeg.	"Pride of Canada" pure Maple Syrup.
" 6	"	48818	H. E. Weldon & Co., 383 Portage Ave., Winnipeg.	1 "	50	"	The Codville Co., Winnipeg.	
" 6	"	48819	Hudson Bay Co., Main St., Winnipeg.	1 "	45	"	W. L. Mackenzie & Co., Winnipeg.	
" 6	"	48820	J. J. Jackson, 252 Main St., Winnipeg.	1 "	45	"	Campbell Bros. & Wilson, Winnipeg.	
" 6	"	48821	J. G. Hargrave & Co., 334 Main St., Winnipeg.	1 "	45	Imperial Syrup Co., Montreal.	J. D. Brack & Co., Winnipeg.	
" 7	"	48822	J. A. McKerchar, 600 Main St., Winnipeg.	1 "	50	Maple Tree Producers' Ass'cn., Montreal.	Campbell Bros. & Wilson, Winnipeg.	
" 7	"	48823	W. H Stone, 648 Main St., Winnipeg.	1 "	45	"	Foley Bros., Winnipeg.	
" 7	"	48824	Robinson & Co., Main St., Winnipeg.	1 "	45	Imperial Syrup Co., Montreal.	J. D. Brack & Co., Winnipeg.	
" 7	"	48825	Mrs. A. Toby, 361 Notre Dame, Winnipeg.	1 "	65	Maple Tree Producers' Ass'cn., Montreal.	Hudson Bay Co., Winnipeg.	"Pride of Canada" pure Maple Syrup.
						DISTRICT OF ROCKY MOUNTAINS—		
Jan 3	Maple Syrup.	49796	J. Davis & Co., Grand Forks, B.C.	1 qt.	60	Sugars & Canners, Ltd., Montreal.		
" 3	"	49797	N. C. McInnis & Co., Grand Forks, B.C.	1 "	50		Balfour, Smye & Co., Hamilton.	
" 3	"	49798	J. Donaldson, Grand Forks, B.C.	1 "	60	Maple Tree Producers' Ass'cn., Montreal.		
" 3	"	49799	"	1 "	60	Imperial Syrup Co., Montreal.		Snowshoe Brand.
" 8	"	49806	J. Svoboda, Nelson, B.C.	1 can	85	Sugars & Canners, Ltd., Montreal.		
" 8	"	49807	Hudson Bay Co., Nelson, B.C.	1 "	100	W. Rock, L'Avenir, P.Q.		
" 8	"	49811	Citizens' Co-op. Asso'cn., Nelson, B.C.	1 "	195	Canada Maple Exchange, Ltd., Montreal	A. Macdonald Co., Nelson, B.C.	Smalls.
" 8	"	49812	Choquette Bros., Nelson, B.C.	1 "	225	N. Beauregard, West Shefford Stn., P.Q.		

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Results of Analysis.

Water.	Solids.	Calculated to Water Free Basis. Lead Number Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash / Insol. Ash.	Malic Acid Value.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
H. ASHTON, ACTING INSPECTOR.									
p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
34·24	65·76	3·00	.....	.....	.....	.....	.....	48816	Genuine.
29·19	70·81	2·90	.....	.....	.....	.....	.....	48817	"
31·87	68·13	3·00	.....	.....	.....	.....	.....	48818	"
34·87	65·13	2·50	.....	.....	.....	.....	.....	48819	"
35·42	64·56	2·30	.....	.....	.....	.....	.....	48820	"
33·19	66·81	1·69	0·63	0·37	0·25	1·48	0·37	48821	Doubtful.
35·11	64·89	3·00	.....	.....	.....	.....	.....	48822	Genuine.
30·85	69·15	2·70	.....	.....	.....	.....	.....	48823	"
30·80	69·20	1·64	0·65	0·42	0·23	1·82	0·56	48824	Doubtful.
31·16	68·84	2·60	.....	.....	.....	.....	.....	48825	Genuine.
THOS. PARKER, INSPECTOR.									
34·44	65·66	0·96	0·36	0·21	0·15	1·40	0·10	49796	Adulterated.
36·72	63·28	2·18	.....	.....	.....	.....	.....	49797	Genuine.
34·16	65·84	3·22	.....	.....	.....	.....	.....	49798	"
33·75	66·35	0·62	0·33	0·21	0·12	1·75	None.	49799	Adulterated.
35·75	64·25	0·54	0·40	0·22	0·18	1·22	0·04	49806	"
33·03	66·97	2·50	.....	.....	.....	.....	.....	49807	Genuine.
32·01	67·99	1·32	0·52	0·32	0·20	1·60	0·21	49811	Adulterated.
35·10	64·90	2·70	.....	.....	.....	.....	.....	49812	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
						DISTRICT OF ROCKY MOUNTAINS—		
1913.								
Feb. 1	Maple Syrup.	49814	Hunter Bros., Rossland, B.C.	1 tin	150	E. J. Lee, West-Sutton, P.Q.		
" 1	"	49818	Union Co-op. Asso'cn., Rossland, B.C.	1 "	90	East Tp. Maple S. & S. Exchange, Sutton, P.Q.		
						DISTRICT OF VANCOUVER—		
Feb. 21	Maple Syrup.	53401	David Spencer, Vancouver, B.C.	1 qt.	45	Bakers Ltd., Montreal.		Bottled by vendors.
" 21	"	53402	Frank Wright, Seymour St., Vancouver, B.C.	1 "	50	Maple Tree Producers' Ass'cn., Montreal.		Pure Maple Syrup. "Pride of Canada" Brand.
						DISTRICT OF VICTORIA—		
Jan. 13	Maple Syrup.	49281	Windsor Grocery Co., 817 Govt. St., Victoria, B.C.	1 qt	50	Maple Tree Producers' Ass'cn., Montreal.		"Pride of Canada" Pure Maple Syrup
" 13	"	49284	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	1 "	50	Canada Maple Exchange, Ltd., Canada.	Nelson, Shakspere, Watkins, Ltd.	"Small's Maple Leaf" Brand
" 14	"	49287	Dixi H. Ross & Co., 1317 Govt. St., Victoria, B.C.	1 "	60	Horner, Granby, P.Q.		
" 14	"	49290	Harrison & McDonald, 1218 Douglas St., Victoria, B.C.	1 "	60	East T. Maple S. & S. Exchange, Sutton, P.Q.		Guaranteed Pure Maple Syrup.
" 15	"	49295	Copas & Young, 631 Fort St., Victoria, B.C.	1 "	50	Maple Tree Producers' Ass'cn., Montreal.		
" 15	"	49297	H. O. Kirkham & Co., 741 Fort St., Victoria, B.C.	1 "	60	"		
" 15	"	49299	Acton Bros., 1317 Douglas St., Victoria, B.C.	1 "	50	"		
" 15	"	49300	"	1 "	50	Canada Maple Exchange, Ltd., Canada.		
" 15	"	53504	Woods & White, 1309 Glatstone Ave., Victoria, B.C.	1 "	50	Sugars & Canners, Ltd., Montreal.		
" 15	"	53506	Wm. Marshall, 1422 Fort St., Victoria, B.C.	1 "	65	Maple Tree Producers' Ass'cn., Ltd., Montreal		

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Results of Analys.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water.	Solids.	Calculated to Water Free Basis. Lead Number Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Water Sol. Ash / Insol. Ash.	Malic Acid Value.		
Concluded.									
p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
32·75	67·25	3·90	.....	.....	.....	.....	.....	49814	Genuine.
34·90	65·10	3·94	.....	.....	.....	.....	.....	49818	"
J. F. POWER, INSPECTOR.									
34·56	65·44	1·92	0·72	0·53	0·19	2·78	.....	53401	Genuine.
35·55	64·45	3·60	.....	.....	.....	.....	.....	53402	"
D. O'SULLIVAN, INSPECTOR.									
34·96	65·04	·70	.....	.....	.....	.....	.....	49281	Genui
33·58	66·42	1·28	0·64	0·45	0·19	2·36	0·15	49284	Adulter ed. Furnisher state Syrup is absolutely[s] guaranteed to them.
33·27	66·73	3·60	.....	.....	.....	.....	.....	49287	Genuine.
35·72	64·28	2·70	.....	.....	.....	.....	.....	49290	"
33·99	66·01	4·20	.....	.....	.....	.....	.....	49295	"
34·23	65·67	2·70	.....	.....	.....	.....	.....	49297	"
36·79	63·21	2·80	.....	.....	.....	.....	.....	49299	"
34·62	65·38	1·27	0·49	0·30	0·19	1·57	0·33	49300	Adulterated.
34·37	65·63	0·36	0·35	0·23	0·12	1·91	0·04	53504	"
36·64	63·36	4·60	.....	.....	.....	.....	.....	53506	Genuine.

APPENDIX C

BULLETIN No. 260—BAY RUM AND FLORIDA WATER

OTTAWA, 11 June, 1913.

WM. HIMSWORTH, Esq.
Acting Deputy Minister,
Inland Revenue.

SIR,—I have the honour to hand you a report dealing with thirty-five samples purchased as Bay Rum, and an equal number of samples purchased as Florida Water, in February and March last.

Bay Rum is not described in the British Pharmacopoeia. It is defined as Spirit of Myrcia (Spiritus Myrciae) in the United States Pharmacopoeia of 1890 (seventh revision) and is there required to be made so that 2,000 cubic centimetres contain 1 220 cubic centimetres of Alcohol (95·1 per cent. volume ethyl alcohol). It is omitted from the Eighth revision of the U.S.P. (1900).

Florida Water has not, so far as I know, ever had any official recognition. It appears to be a solution of essential oils in more or less dilute alcohol.

Complaints have been made, on more than one occasion, to this Department, that the articles above named are sometimes prepared with the unacknowledged use of wood alcohol (Columbian Spirit) instead of ethyl alcohol.

7-8 Edward VII, Chap. six (assented to 10th April, 1908); Sec. 7 is as follows:—

"Section 266 of the said Act (Inland Revenue Act, Chap. 51, R.S., 1906) is amended by adding the following subsection thereto:—

2. Every person who uses methyl alcohol, or spirits containing methyl alcohol, in any form, in any pharmaceutical, medicinal or other preparation intended for external use shall affix to the vessel containing the said preparation a label stating, in black letters not less than one-fourth of an inch in height, the presence of methyl alcohol therein; and every person violating the provisions of this subsection shall incur a penalty not less than fifty dollars and not exceeding two hundred dollars."

The following samples sold as Bay Rum contain methyl alcohol:—

No. 37185. There is nothing on the label or in the conditions of sale to indicate that methyl alcohol is present. The article is judged to be adulterated; but it may be that the word ILLEGALLY SOLD would better describe the case.

No. 37186. Contains methyl alcohol along with ethyl alcohol, and is probably made with methylated spirit. There is nothing on the label to indicate presence of methyl alcohol, and it must be judged similarly to the above.

No. 51236. Contains methyl and ethyl alcohols. The words "methyl alcohol" are written, scarcely legibly, upon the label, which is a written one; the words "Bay Rum" being however quite distinct. I have judged this case as doubtful; but in strict interpretation of the subsection above-quoted where the presence of methyl alcohol is required to be stated "in black letters not less than one-fourth of an inch in height," there can be no doubt that the article is illegal.

No. 51754. Is made with methyl alcohol. The label is a printed one and reads: "Genuine Imported Bay Rum". The word "Methyl" is written above, and between, the words "Genuine" and "Imported"—and is quite distinct. I have judged the sample as "doubtful" from the fact that the word "Methyl" is not an integral part of the label, as printed.

No. 51593. The sample is made with methyl alcohol. It is labelled "Genuine Imported Bay Rum," and contains no statement of the presence of methyl alcohol. It is therefor sold illegally.

No. 51595. This sample is labelled "Bay Rum," and has no mention of methyl alcohol, which has been used in its manufacture. I have judged it to be adulterated, or sold illegally.

FLORIDA WATER.

No. 46914. Contains methyl alcohol. It is labelled "Royale Florida Water" with no declaration of the presence of methyl alcohol. Illegally sold.

No. 51243. Is labelled "Florida Water" and contains no mention of methyl alcohol, although it is entirely made from this. It is sold illegally.

No. 57051. Is labelled "Florida Water" without mention of methyl alcohol, though made entirely from this. Is illegally sold.

No. 57161. Labelled "Holman's Florida Toilet Water" without mention of methyl alcohol which is present. It is therefore sold illegally.

I beg to recommend publication of this report as Bulletin No. 260.

I have the honour to be, Sir,
Your Obedient Servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF NOVA SCOTIA—								
1913.								
Mar. 6	Bay Rum.	46906	National Drug Co., Halifax, N.S.	1 qt..	90	Michelsen, St. Thomas, W.I.	Mfr	....
" 7	"	46907	Kinleys Ltd., Halifax, N.S.	3 bots.	75	Vendors	....	... .
" 7	"	46908	Estate of J. R. Rawley, Halifax, N.S.	3 " ..	75	N. D. & C. Co., Halifax, N.S.	Mfrs...	... .
" 10	"	46909	F. W. Woolworth, Halifax, N.S.	3 " ..	45	C. H. Selick, New York.	Mfr	....
" 27	"	46910	Buckley Bros., Halifax, N.S.	3 " ..	105	H. Michelsen, W.I.	Lymans Ltd., Montreal.	....
DISTRICT OF QUEBEC—								
Feb. 25	Bay Rum.	37183	Dr. A. Fournier, 65 Rue Cremasie, Montcalmville.	3 bots.	180	W. Brunet & Cie, Quebec.	Mfrs.....	.....
" 26	"	37184	Ed. Delisle, 19 Rue Notre Dame des Anges, Quebec.	3 " ..	450	C. Michelsen, St Thomas, West Indies.	W. Brunet & Cie, Quebec.	....
" 26	"	37185	" .	3 " ..	150	Vendor	....	
Mar. 6	"	37186	A. E. Francœur, 379½ Rue St Jean, Quebec.	3 " ..	195	"	... .	....
" 7	"	37187	Alfred Jolicœur, 338 Rue St. Jean, Quebec.	3 " ..	300	"	... .	....
DISTRICT OF MONTREAL								
Mar. 7	Bay Rum.	51236	Dr. J. A. Champagne, Wellington St., Verdun, P.Q.	1½ pts.	150	Vendor	....	Word Methyl Alcohol written in on label.
" 10	"	51237	E. Vadboncour, 51 St. Lawrence B., Montreal.	3 bots.	100	"	... .	Labelled Genuine.
" 10	"	51238	A. F. Larose, 2 Sherbrooke E., Montreal.	3 " ..	75	"	....	....
" 10	"	51239	Dr. Leduc Drug Co., 1181 St. Lawrence B., Montreal.	3 " . .	75	Vendors	... .	..... .
" 10	"	51240	J. L. Roberge, 1231 St. Lawrence B., Montreal.	3 " ..	75	Vendor		....

SESSIONAL PAPER No. 14

BAY RUM.

Results of Analysis.										
Alcohol.		Immersion Refractometer Reading 20° C on Alcohol.								
By Volume.	By Weight.	Theoretical for Ethyl Alcohol.	Theoretical for Methyl Alcohol.	Observed.	Diff. between observed and Theoretical.		Conclusion.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
					For Ethyl Alcohol.	For Methyl Alcohol.			
R. J. WAUGH, INSPECTOR.									
p. c.	p. c.				°	°			
50·8	43·2	84·5	39·2	85·3	0·8	.....	Ethyl Alcohol ..	46906	
55·4	47·7	88·4	39·7	89·4	1·0	.....	" ..	46907	
32·2	26·5	62·8	30·6	62·9	0·1	.....	" ..	46908	
26·5	21·7	53·7	27·6	54·4	0·7	.....	"	46909	
50·9	43·3	84·5	39·2	85·3	0·8	.....	"	46910	
F. X. W. E. BELAND, INSPECTOR.									
45·7	38·5	79·6	37·5	80·3	0·7	.....	Ethyl Alcohol ..	37183	
50·3	42·8	84·0	39·1	84·6	0·6	.....	" ..	37184	
52·1	44·5	85·7	39·3	40·0	.....	0·7	Methyl Alcohol.	37185	Made with wood alcohol. Adulterated.
39·2	32·6	72·5	34·5	51·6	.....	17·1	45% Ethyl Alcohol — 55% Methyl Alcohol.	37186	Made with a mixture of alcohol and wood alcohol. Adulterated.
48·1	40·7	82·0	38·3	82·0	0·0	.....	Ethyl Alcohol ..	37187	
J. J. COSTIGAN, INSPECTOR.									
60·2	52·3	92·0	39·6	61·4		21·8	41·6% Ethyl Alcohol — 58·4% Methyl Alcohol.	51236	Made with a mixture of alcohol and wood alcohol. Doubtful.
44·2	37·2	78·2	36·9	78·7	0·5	..	Ethyl Alcohol ..	51237	
46·7	39·4	80·6	37·9	81·3	0·7	..	" .	51238	
44·5	37·4	78·5	37·0	79·5	1·0	..	" ..	51239	
21·6	17·6	45·5	24·9	45·8	0·7	.....	" ..	51240	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF OTTAWA—								
1913.								
Mar. 3	Bay Rum.	51750	J. Skinner & Son, Ottawa.	1½ pts.	125	Vendors.		
Feb. 24	"	51751	J. C. Switzer, Arnprior.	1½ "	100	"		
Mar. 3	"	51752	Halliday&Sproule, Ltd., Ottawa.	1 qt.	100	Jones Bros. & Co., Toronto.	Mfrs.	
" 4	"	51753	Allen & Cochrane, Ottawa.	24 oz.	75	Vendors		Labelled Imported Bay Rum.
" 6	"	51754	Ottawa Drug Co., Ottawa.	1½ pts.	100	"		Labelled Methyl Bay Rum.
DISTRICT OF TORONTO—								
Mar. 1	Bay Rum.	51593	The F. E. Karn Co., Ltd., Queen and Victoria Sts., Toronto.	3 bots.	87	Vendors		Labelled Genuine Imported Bay Rum.
" 1	"	51594	The T. Eaton Co., Ltd., Queen and Yonge Sts., Toronto.	3 "	75	"		Labelled Superior Bay Rum.
" 1	"	51595	G. Tamblyn, 232½ Yonge St., Toronto.	3 "	57	Vendor		
" 1	"	51596	Liggetts Ltd., 224 Yonge St., Toronto.	3 "	57	Vendors		Labelled St. Thomas Bay Rum.
" 10	"	51597	The Hooper Drug Co., Ltd., 83 King St. West, Toronto.	3 "	120		The Drug Trading Co., Ltd., Toronto.	
DISTRICT OF HAMILTON								
Apr. 24	Bay Rum.	57156	T. W. Woolworth Co., Ltd., King St. east, Hamilton.	6 bots.	90	Ed. Gerarde Perfume Co., Chicago, Ill.		Labelled Royale Bay Rum. This preparation contains 33⅓% alcohol.
" 24	"	57157	Stanley Mills Co., Ltd., 11-15 King St. east. Hamilton.	3 "	75		Unknown	Labelled Superior Bay Rum.
" 24	"	57158	T. C. Watkins Co., Ltd., King St. east, Hamilton.	6 "	150		"	Labelled double distilled Bay Rum. H. Michaelson, St. Thomas, West Indies.

SESSIONAL PAPER No. 14

BAY RUM.

Results of Analysis.									
Alcohol.		Immersion Refractometer Reading 20° C. on Alcohol.			Diff. between observed and Theoretical				
By Volume.	By Weight.	Theoretical for Ethyl Alcohol.	Theoretical for Methyl Alcohol.	Observed.	For Ethyl Alcohol.	For Methyl Alcohol.	Conclusion.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. A. RICKEY, INSPECTOR.									
p. c.	p. c.								
57·1	49·3	89·7	39·8	90·4	0·7		Ethyl Alcohol	51750	
60·6	52·8	92·3	39·6	93·0	0·7		"	51751	
50·8	43·2	84·4	39·2	85·2	0·8		"	51752	
49·7	42·2	83·5	38·9	84·0	0·5		"	51753	
47·1	39·8	81·1	38·0	38·3		0·3	Methyl Alcohol	51754	Made with wood alcohol. Doubtful. The word "Methyl" is written on a printed label.
H. J. DAGER, INSPECTOR.									
67·3	59·6	96·0	38·1	38·5		0·4	Methyl Alcohol	51593	Made with wood alcohol. Adulterated.
46·4	39·1	80·3	37·7	81·0	0·7		Ethyl "	51594	
56·8	49·0	89·5	39·8	40·3		0·5	Methyl "	51595	Made with wood alcohol. Adulterated.
47·5	40·2	81·5	38·2	81·9	0·4		Ethyl "	51596	
48·1	40·7	82·0	38·3	82·4	0·4		" "	51597	
H. J. DAGER, ACTING INSPECTOR.									
28·4	23·3	56·9	28·6	57·5	0·6		Ethyl Alcohol	57156	
38·4	31·9	71·6	33·7	71·8	0·2		"	57157	
51·0	43·4	84·6	39·4	85·4	0·8		"	57158	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF HAMILTON—								
1913.								
Apr. 25	Bay Rum.	57159	Roy C. Sexsmith, 240 York St., Hamilton.	3 bots	75	Vendor		Labelled Duncan Carson, Phm. B, Hamilton, Ont.
" 25	"	57160	Parke & Parke, 17-20 Market Square, Hamilton.	1 "	50	Vendors		Labelled Superior Bay Rum. Sold as Barbers' Bay Rum.
DISTRICT OF VANCOUVER—								
Mar. 5	Bay Rum.	53421	H. O. Torrence, Davie and Denman Sts., Vancouver, B.C.	3 bots.	65	Vendor		
" 5	"	53422	Harrison's Drug Store, Granville and 7th Sts., Vancouver, B.C.	3 "	75	"		
" 5	"	53423	Ferguson's Drug Store, 2043 Granville St., Vancouver. B.C.	3 "	75	H. Michaelson, St. Thomas, West Indies.	Nat. Drug Co.	
" 5	"	53424	Cunningham's Drug Store, Denman and Nelson Sts., Vancouver, B.C.	3 "	105	Vendor		
" 6	"	53425	Harrison's Drug Store, Rogers Block, Vancouver, B.C.	3 "	75	"		

SESSIONAL PAPER No. 14

BAY RUM.

Results of Analysis.									
Alcohol.		Immersion Refractometer Reading 20°C. on Alcohol.						No. of Sample.	Remarks and Opinion the Chief Analyst.
By Volume.	By Weight.	Theoretical for Ethyl Alcohol.	Theoretical for Methyl Alcohol.	Observed.	Diff. between Observed and Theoretical.		Conclusion.		
					For Ethyl Alcohol.	For Methyl Alcohol.			
Concluded.									
p. c.	p. c.	°		°	°				
36·5	30·3	69·3	32·9	69·3	0·0	.....	Ethyl Alcohol ..	57159	
24·0	19·6	49·7	26·1	49·9	0·2	.....	„ ..	57160	

J. F. POWER, INSPECTOR.

56·3	48·5	89·1	39·7	89·4	0·3	.....	Ethyl Alcohol.	53421	
50·0	42·4	83·5	38·9	83·9	0·4	.....	„ ..	53422	
50·8	43·2	84·4	39·2	85·3	0·9	.....	„ ..	53123	
59·2	51·4	91·3	39·7	92·1	0·8	.....	„	53424	
50·0	42·4	83·5	38·9	83·9	0·4	.....	„ ..	53425	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF NOVA SCOTIA								
1913.								
Mar. 6	Florida Water.	46911	G. A. Burbidge, Halifax, N.S.	3 bots.	75	Lanman&Kemp, Montreal.	N. D. Co., Halifax, N.S.	
" 6	"	46912	National Drug Co., Halifax, N.S.	3 "	50	Vendors, Montreal Branch.		
" 7	"	46913	Kinleys Ltd., Halifax, N.S.	3 "	75	F. F. Ingram Co., Detroit, Mich.	Mfrs	
" 10	"	46914	F. W. Woolworth, Halifax, N.S.	3 "	45	E Gerarde, Chicago, Ill.	Mfr	
" 27	"	46915	W. H. Stevens, Dartmouth, N.S.	3 "	75	Lanman&Kemp, Montreal.	N. D. Co., Halifax Branch, Halifax, N.S.	
DISTRICT OF QUEBEC								
Feb. 24	Florida Water.	37158	Benjamin Crepeault, 68 Rue Ramaise, Montcalmville.	3 bots.	115	Lanman&Kemp, Montreal.	Jos. Amiot & fils, Quebec.	
" 25	"	37159	Dr. A. Fournier, 65 Rue Cremasie, Montcalmville.	3 "	150	Murray & Lanman, New York.	Nat. Drug Co., Montreal.	
" 26	"	37160	Ed. Delisle, 19 Rue Notre Dame des Anges, Quebec.	3 "	150	Murray & Lanman, Montreal.	W. Brunet & Cie, Quebec.	
Mar. 6	"	37161	A. Francœur, 379½ Rue St. Jean, Quebec.	3 "	150	John Taylor, Toronto.	Mfr	
" 7	"	37162	Alfred Jolicœur, 338 Rue St. Jean, Quebec.	3 "	150	Seely Mfg. Co., Windsor, Ont.	Mfrs	
DISTRICT OF MONTREAL								
Mar. 7	Florida Water.	51241	Dr. J. Champagne, Wellington St., Verdun, P.Q.	3 bots.	150	Seely Mfg. C., Windsor, Ont.		
" 10	"	51242	E. Vadboncœur, 51 St. Lawrence B, Montreal.	3 "	150	Nat. Drug and Chem.Co., Ltd.		"De Leon" Brand.
" 10	"	51243	Dr. Leduc Drug Store, 1181 St. Lawrence B, Montreal.	3 "	115	C. F. Booth, New York.		
" 10	"	51244	J. L. Roberge, 1231 St. Lawrence B, Montreal.	3 "	150	Lanman& Kemp, Montreal.		
" 10	"	51245	Lymans Ltd., St. Paul St., Montreal.	3 "	100	Vendors		

FLORIDA WATER.

Results of Analysis.

Specific Gravity of Sample.	Specific Gravity of Distillate.	Alcohol. By Weight.	Alcohol. By Volume.	Proof Spirit.	Refractometer reading 20° C.	Methyl Alcohol by Weight.	Residue on Evaporation.	Ash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.										
		p. c.	p. c.	p. c.	°	p. c.	gram.	gram.		
0·8757	0·8726	69·79	76·72	134·25	105·0	.....	0·446	0·0034	46911	
0·8769	0·8781	67·50	74·67	130·85	104·1	.....	0·040	0·0022	46912	
0·9157	0·9152	51·29	59·14	103·63	94·5	.....	0·066	0·0702	46913	
0·9346	0·9343	2·62	3·28	5·74	41·1	40·0	0·027	0·0142	46914	Contains Methyl Alcohol Illegally sold.
0·8754	0·8788	67·21	74·40	130·39	105·0	...	0·492	0·0043	46915	
F. X. W. E. BELAND, INSPECTOR.										
0·8722	0·8729	69·67	76·71	134·25	104·8	.....	0·467	0·0032	37158	
0·8768	0·8723	69·92	76·83	134·64	105·0	...	0·521	0·0035	37159	
0·8722	0·8743	69·08	76·09	133·34	104·9	.....	0·444	0·003	37160	
0·8995	0·8997	58·18	65·94	115·09	99·0	.....	0·109	0·0055	37161	
0·8872	0·8856	64·26	71·74	125·63	101·3	.....	0·191	0·0032	37162	
J. J. COSTIGAN, INSPECTOR.										
0·8835	0·9003	57·92	65·69	114·11	97·9	...	0·170	.....	51241	
0·8750	0·8895	62·59	70·14	122·91	101·6	.....	0·055	0·0023	51242	
0·9326	0·9326	43·43	51·02	89·41	40·6	43·43	0·108	0·0139	51243	Contains Methyl Alcohol. Illegally sold.
0·8740	0·8794	66·96	74·17	129·99	101·9	.....	0·412	...	51244	
0·8720	0·8818	65·92	73·22	128·32	101·3	.....	0·104	0·0057	51245	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
								DISTRICT OF OTTAWA—
1913.								
Mar. 3	Florida Water.	51755	Halliday & Sproule Ltd., Ottawa.	3 bots.	225	Sovereign Perfumes, Ltd., Toronto.	Mfrs	"Ideal" Brand.
Feb. 25	"	51756	B. F. Smith, Winchester, Ont.	3 "	150	"	"	"
Mar. 4	"	51757	T. T. Beattie, Ottawa.	3 "	150	Seely M'fg. Co., Windsor, Ont.	"	
" 4	"	51758	R. M. Arbuthnot, Ottawa.	3 "	150	Lanman & Kemp, Montreal.	Unknown	
" 6	"	51759	National Drug Co., Ottawa.	3 "	113	Vendors		"De Leon" Florida Water.
								DISTRICT OF TORONTO—
Feb. 27	Florida Water.	57051	C. Hughel Co., 224½ Parliament St., Toronto.	3 bots.	75	Vendors		
Mar. 1	"	57052	G. Tamblyn Ltd., 443 Yonge St., Toronto.	3 "	78	Sovereign Perfume, Ltd., Toronto.		Labelled "Ideal Florida Water."
" 7	"	57053	C. B. Borland, 1585 Dundas St. west, Toronto.	3 "	170	Jno. Taylor & Co., Ltd., Toronto.		Labelled "St. Augustine" Florida Water.
" 10	"	57054	Jones Bros. & Co., Ltd, 31 Adelaide St. west, Toronto.	3 "	100			Labelled "Jay-Bee-See" Florida Water.
" 10	"	57055	Geo. E. Gibbard, 295 King St. west, Toronto.	3 "	120		F. F. Ingram, Detroit, Mich.	Labelled "Ingrams" Florida Water.
								DISTRICT OF HAMILTON—
Apr. 24	Florida Water.	57161	Brewesters Ltd., 19-21 King St. east, Hamilton.	6 bots.	90		Holman, Chicago.	Labelled "Holman's" Florida Toilet Water.
" 24	"	57162	John Mack, 1 James St. north, Hamilton.	3 "	150	Seely Mfg. Co., Windsor, Ont.		Labelled Florida Water.
" 24	"	57163	R. C. Porter, 244 James St. north, Hamilton.	3 "	150	H. K. Wampole Co., Ltd., Perth, Ont.		Labelled "Tallahasse" Florida Water. Dist'd by Mfrs.
" 25	"	57164	A. Patrick, York and Queen Sts., Hamilton.	3 "	75		Nerlich & Co., Toronto.	Labelled Florida Water. Superior quality, made in Germany.
" 25	"	57404	H. P. Teetre, 663 King St. east, Hamilton.	3 "	120		Unknown	Labelled "De Leon" Florida Water extra. Prepared only by Nat. Drug Co.

SESSIONAL PAPER No. 14

FLORIDA WATER.

Results of Analysis.

Specific Gravity of Sample.	Specific Gravity of Distillate.	Alcohol. By Weight.	Alcohol. By Volume.	Proof Spirit.	Refractometer Reading at 20° C	Methyl Alcohol by Weight.	Residue on Evaporation.	Ash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. A. RICKEY, INSPECTOR.										
		p. c.	p. c.	p. c.		p. c.	gram.	gram.		
0·9056	0·9079	54·62	62·45	109·45	96·5	.....	0·066	0·0067	51755	
0·9031	0·9099	53·61	61·45	107·69	95·0	.....	0·053	0·0055	51756	
0·8889	0·8955	60·04	67·73	118·70	99·7	.....	0·062	0·0056	51757	
0·8742	0·8900	62·36	69·92	122·53	102·3	.....	0·445	0·0011	51758	
0·8868	0·9020	57·21	65·01	113·92	98·1	.....	0·061	0·0068	51759	
H. J. DAGER, INSPECTOR.										
0·8830	0·8881	63·22	70·73	123·95	38·2	63·22	0·028	0·0045	57051	Contains Methyl Alcoho Is illegally sold.
0·9068	0·9155	51·17	59·01	103·41	93·5	.....	0·065	0·0066	57052	
0·8948	0·8994	58·32	66·07	115·80	98·5	.....	0·068	0·0022	57053	
0·8831	0·9025	57·00	64·80	113·57	98·5	.....	0·149	0·0713	57054	
0·9131	0·9200	49·16	56·98	99·86	91·9	.....	0·064	0·0033	57055	
H. J. DAGER, ACTING INSPECTOR.										
0·9649	0·9647	.....	.....	.....	29·7	24·85	0·040	0·0113	57161	Contains Methyl Alcohol. Is illegally sold.
0·8871	0·8867	63·83	71·30	124·94	101·9	.....	0·185	0·0038	57162	
0·9057	0·9058	55·50	63·33	111·00	97·5	.....	0·132	0·0036	57163	
0·9328	0·9313	44·05	51·68	90·56	85·0	.....	.....	0·0015	57164	
0·8792	0·8804	73·77	66·52	129·29	103·4	.....	0·041	.....	57404	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by tha Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by tha Vendor. Furnisher.	Inspector's Report. (Is not an expression of Opinion).
						DISTRICT OF VANCOUVER		
1913.								
Mar. 5	Florida Water.	53426	Ferguson's Drug store, Granville and Davie Sts., Vancouver, B.C.	3 bots.	75	Nat. Drug Co., Vancouver, B.C.		
" 6	"	53427	Campbell's Ltd., Hastings and Granville Sts., Vancouver, B.C.	3 "	75	Seely Mfg. Co., Windsor, Ont.		
" 6	"	53428	Owl Drug Co., Dunsmuir and Granville Sts., Vancouver, B.C.	3 "	75	Lanman & Kemp, Montreal.		
" 6	"	53429	Vanc. Drug Co., 649 Granville St., Vancouver, B.C	3 "	75	Sovereign Perfumes, Ltd., Toronto.		
" 7	"	53430	Broadway Pharmacy, Broadway and Granville Sts., Vancouver, B.C.	3 "	75	H. K. Wampole, Perth, Ont.		

SESSIONAL PAPER No. 14

FLORIDA WATER.

Results of Analysis.										Remarks and Opinion of the Chief Analyst.
Specific Gravity or Sample.	Specific Gravity of Distillate.	Alcohol. By Weight.	Alcohol. By Volume.	Proof Spirit.	Refractometer reading 20° C.	Methyl Alcohol by Weight.	Residue on Evaporation.	Ash.	No. of Sample.	
J. F. POWER, INSPECTOR.										
		p. c.	p. c.	p. c.	°	p. c.	gram.	gram.		
0·8789	0·8893	63·23	69·79	122·31	106·4	.....	0·041	0·0038	53426	
0·8841	0·8903	61·79	69·38	121·59	100·0	.....	0·158	0·0046	53427	
0·8722	0·8736	69·38	76·35	133·80	105·0	.....	0·508	0·0116	53428	
0·9059	0·9048	55·95	63·78	111·79	97·3	.....	0·081	0·004	53429	
0·9040	0·9042	56·23	64·04	112·26	97·1	.....	0·126	0·006	53430	

APPENDIX D.

BULLETIN No, 261—TONIC WINES.

OTTAWA, June 24, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister, Inland Revenue.

SIR,—I beg to advise you that on June 15, 1910, the Deputy Minister of Inland Revenue suggested the inspection of medicated wines, as sold in Canada. (See L. 71528). This was consequent upon information received to the effect that certain of these wines contained cocaine without acknowledgment of the fact.

A collection of such wines was ordered September 1, 1910; and analysis of the samples was completed. A report of results was on my desk at the time of the burning of our laboratories, January 4, 1911—and was destroyed. Among the salvage we later discovered portions of the books in which the analyst who did the work had entered his first-hand notes. From these it has been found possible to recover sufficient analytical data to justify publication. This forms Part I of the present report.

On August 26, 1912, you advised collection of a further supply (See L. 95872, F. 99147), and in consequence of this, instructions to collect were issued in December of last year. The results of work upon this collection constitute Part II. of this report.

It will be easily understood that the amount of work required in this is very great; and where our inspectors in different districts have sent in samples of the same brand of wine, I have not considered it justifiable in view of the large amount of labour needed in other classes of foods and drugs, to submit every sample to analysis. Thus, there have been sent in ten samples of the wine known at St. Michel in the collection of 1910; and one sample in the collection of this year. Of these eleven samples, four only have been examined and reported.

The information herein given will be of use to physicians, and to those who use medicated wines. It would be invidious to make comparison among these articles, which are mostly, if not in every case, proprietary. It is sufficient to say that nothing is found in any of them which need be harmful to the health of the consumer who uses them intelligently.

Cocaine is not permitted to be present in medicated wines, or in any patent medicine, since the Proprietary or Patent Medicines Act came into force (April 1, 1909). No cocaine has been found in samples reported in Part II.

Part I. comprises 58 samples representing 29 different brands.
Part II. comprises 40 samples representing, apparently, 38 different brands.
I beg to recommend publication of this report as Bulletin No. 261.

I have the honour to be, Sir,
Your Obedient Servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF NOVA SCOTIA—				
1910.							
Oct. 17	Tonic Wine ..	42145	Nat. Drug & Chem. Co., Halifax, N.S.	3 bots.	300	Unknown	Boivin, Wilson, Montreal.
" 18	" ..	42146	J. St. Clair Coombs, Halifax, N.S.	3 " ..	300	L. C. Wilson	N. D. & C. Co., Halifax, N.S.
.. ....	" ..	42147	Grace & Gastonguay, Halifax, N.S.	3 " ..	190	Unknown	....
.. ....	" ..	42148	Kelley & Glassey, Halifax, N.S.	3 " ..	300	"	J. M. Douglas, Montreal.
			DISTRICT OF NEW BRUNSWICK—				
Sept. 12	Tonic Wine ..	45334	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	3 bots.	213	....	L. A. Wilson, Montreal.
" 12	" ..	45335	" " ..	3 " ..	250	....	Nat. Drug & Chem. Co., Ltd., Montreal.
" 15	"	45336	John O'Regan, St. John, N.B.	3 " ..	213	.....	Boivin, Wilson & Co., Montreal.
" 15	" ..	45337	" " ..	3 " ..	238	.....	Vin de Carmes, Quebec.
" 17	" ..	45338	R. Sullivan & Co., St. St. John, N.B.	3 " ..	225	....	J. M. Douglas & Co., Montreal.
			DISTRICT OF QUEBEC—				
Sept. 12	Tonic Wine ..	36486	Jos. Masson, 808 Rue St. Valier, Quebec.	3 bots.	225	A. Toussiant & Cie, Quebec.	Dr. Ed. Morin & Cie, Quebec.
"	" .	36487	" " ..	3 " ..	225	Unknown	" ..
" 13	" ..	36488	Alphonse Martinean, 784 Rue St. Valier, Quebec.	3 " .	180	"	" ..
" 13	"	36489	Arthur Drolet, 714 Rue St. Valier, Quebec.	3 " .	225	Fournier & Fournier, Ltd., St. Hyacinthe.	Mfrs .....
" 14	" ..	36490	W. Brunet & Cie, 139 Rue St. Joseph, Quebec.	3 " ..	300	Franco - American Chem. Co., Montreal.	" .....
			DISTRICT OF MONTREAL—				
Sept. 15	Tonic Wine ..	40756	Nat. Drug & Chem. Co., Ltd., Montreal.	3 bots.	113	.....	.....
" 15	" ..	40757	" " ..	3 " ..	225	.....	.....
" 27	" ..	40758	Hudon & Orsali, St. Paul St., Montreal.	3 " ..	188	.....	.....
" 27	" ..	40759	" " ..	3 " ..	260	.....	.....

SESSIONAL PAPER No. 14

TONIC WINES—PART 1.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Ccs. $\frac{N}{10}$ KOH per 100ccs.	Acidity gms Tartaric Acid per 100ccs.	Reducing Sugar as Dextrose.	Total Solids.	Non-Sugar Solids.	Remarks, Alkaloids, etc.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.								
Vin St. Michel							42145	
Wilson's Invalid Port Wine.							42146	
Vin des St. Carmes.		0·63	15·05	18·74	3·69	Principally cinchona alkaloids, 133 mgms. per litre. Trace of cocaine.	42147	
Red Heart Tonic Wine.		0·35	17·08	19·37	2·29	Specifically undetermined alkaloids, 58 mgms. per litre	42148	
J. C. FERGUSON, INSPECTOR.								
Wilson's Invalid Port.							45334	
Vin Mariana				8·07		Alkaloids 70 mgms. per litre. Contains cocaine.	45335	
Vin de St. Michel.		0·36	17·55			Specifically undetermined crude alkaloids, 45 mgms. per litre.	45336	
Vin des Carmes							45337	
Red Heart							45338	
F. X. W. E. BELAND, INSPECTOR.								
		0·52	15·70	19·58	3·88	Principally cinchona alkaloids. 123 mgms. per litre. No cocaine.	36486	
							36487	
	90·33		1·77	4·44	2·67	Quinine by titration gms. per litre 1·409.	36488	
							36489	
							36490	
J. J. COSTIGAN, INSPECTOR.								
Morin's Wine. Creso phosphate.		0·32	8·58			Specifically undetermined alkaloids 48 mgms. per litre. Contains cresote.	40756	
Vin St. Michel							40757	
Vin des Carmes.							40758	
Vin St. Martin		0·68	17·20	21·49	4·29	Principally cinchona alkaloids. 187 mgms. per litre.	40759	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF MONTREAL—							
1910.							
Sept. 27	Tonic Wine	40760	Hudon & Orsali, St. Paul St., Montreal.	3 bots.	212		
Oct. 4	"	41063	Dr. C. P. Verdun, Granby P.Q.	3 "	225		
" 5	"	41064	T. H. Welch, Waterloo, P.Q.	3 "	375		
" 10	"	41065	J. H. E. Brodeur, St. Hyacinthe, P.Q.	3 "	150		
" 10	"	41066	" "	3 "	255		
DISTRICT OF OTTAWA—							
Sept. 28	Tonic Wine	43094	The Ottawa Nat. Phar. Ltd., Ottawa.	3 bots.	300	Unknown	Lymans Ltd., Montreal.
" 7	"	43095	Beattie & Argue, Ottawa.	3 "	300	"	Nat. Drug & Chem. Co., Ltd., Ottawa.
" 8	"	43096	F. W. Day, Ottawa	3 "	300	"	"
" 28	"	43097	D. Belanger, Hull, P.Q.	3 "	300	"	Unknown
" 28	"	43098	Ottawa Drug Co., Ottawa.	3 "	150	Dr. Ed. Morin & Cie, Quebec.	Mfrs
DISTRICT OF KINGSTON—							
Oct. 4	Tonic Wine	46529	G. W. Mahood, Kingston.	3 bots.	300		
" 5	"	46530	Geo. Thompson, Kingston.	3 "	225	H. Kola Ltd., Toronto.	
" 5	"	46531	E. Beaupre, Kingston	3 "	300		
" 5	"	46532	R. Lawler, Kingston	3 "	375	The Ont. Grape Growing, St. Catharines.	
" 5	"	46533	J. B. McLeod, Kingston	3 "	300	H. K. Wampole, Perth, Ont.	
DISTRICT OF TORONTO—							
Sept. 13	Tonic Wine	47202	The Nat. Drug & Chem. Co., Ltd., Toronto.	3 bots.	200		Boivin, Wilson, Montreal.
" 13	"	47203	G. Tamblyn, 133 Yonge St., Toronto.	3 "	267		Lyman Bros. & Co., Ltd., Toronto.
" 13	"	47204	Hygiene Kola Ltd., 1383 Queen St. west, Toronto.	3 "	200	Vendors	
" 20	"	47205	The Nat. Drug & Chem. Co., Ltd., Hamilton.	3 "	225	L. A. Wilson, Montreal.	
" 27	"	47206	The T. Eaton Co., Ltd., Toronto.	3 "	150	C. Lewis of the T. Eaton Co., Ltd., Toronto.	

SESSIONAL PAPER No. 14

TONIC WINES—PART I—*Continued.*

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Cos. $\frac{N}{10}$ KOH per 100ccs.	Acidity gms. Tartaric Acid per 100ccs.	Reducing Sugar as Dextrose.	Total Solids.	Non-Sugar Solids.	Remarks, Alkaloids, etc.		

Concluded.

Ovonol							40760	
Vin St. Martin							41063	
Vin St. Michel							41064	
Vin Morin							41065	
Vin des Carmes							41066	
J. A. RICKEY, INSPECTOR.								
Vin Bonaparte Iodo Quinique.		0·77	20·89	28·17	7·28	Quinine, 206 mgms. per litre.	43094	
Carter's Aromatic Quinine Wine.	33·57		7·15	8·85	1·70	Quinine by titration, 0·275 gms. per litre.	43095	
Vin St. Michel							43096	
Vin des Carmes							43097	
Vin Morin							43098	
JAS. HOGAN, INSPECTOR.								
Wilson's Invalid Port.							46529	
							46530	
Vinho do Porto		0·50	10·01	12·30	2·29		46531	
		0·68	16·92	19·55	2·63	Volatile acid 0·08 p.c	46532	
		0·74	13·29	16·52	3·23	Extract with chloroform gives test for caffeine.	46533	
H. J. DAGER, INSPECTOR.								
Vin St. Michel							47202	
Vin Mariana a la Coca du Peru.						Alkaloids 74 mgms. per litre. Contains cocaine.	47203	
Kola Tonic Wine. Kola Celery and Pepsin.							47204	
Wilson's Invalid Port.							47205	
Lewis Quinine Wine.	78·1		21·40	26·30	4·90	Quinine by titration 1·778 gms. per litre.	47206	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF MANITOBA—							
1910.							
Nov. 14	Tonic Wine	45804	Anderson's Drug Store, Winnipeg.	3 bots.	300	Unknown	Unknown
" 14	"	45805	The Public Drug Co., Winnipeg.	3 "	300	L. A. Wilson, Montreal.	The Nat. Drug. Co., Winnipeg.
" 14	"	45806	The Gordon Mitchell Drug Co., Winnipeg.	3 "	300	Unknown	Vendors
" 14	"	45807	Harrison Bros., Winnipeg.	3 "	150	The Hygienic Kola Co., Winnipeg.	"
" 14	"	45808	" "	3 "	150	The Martin Bole Wynn Co., Winnipeg.	"
DISTRICT OF CALGARY—							
Sept. 22	Tonic Wine	43929	The Nat. Drug & Chem. Co., Calgary.	3 bots.	300		Boivin, Wilson, Montreal.
" 22	"	43930	The Great West Liq. Co., Ltd., Calgary	3 "	300	L. A. Wilson, Montreal.	
" 22	"	43931	James Findlay Drug Co., Calgary.	3 "	300	Lyman Sons & Co., Montreal.	
" 22	"	43932	The Hudson's Bay Co., Calgary.	3 "	300	Mariana, 41 Bd. Hausmann, Paris	
" 22	"	43933	Calgary Wine & Spirit Co., Calgary.	3 "	300		S. B. Townsend & Co., Montreal.
DISTRICT OF VANCOUVER—							
Oct. 5	Tonic Wine	38004	Le Patcourel & McRae Vanc., B.C.	3 bots.	375	L. A. Wilson, Montreal.	
" 5	"	38005	Gold Seal Liquor Co., Vanc., B.C.	3 "	450		W. A. Gilby. Shipped from Portugal.
" 5	"	38006	Georgia Pharmacy, Vanc., B.C.	3 "	300	Ont. Grape Growers' Association.	
" 5	"	38007	W. M. Harrison, Vanc., B.C.	3 "	300	Northrop & Lyman	
" 5	"	38008	W. E. Lay, Davie and Granville Sts., Vanc., B.C.	3 "	150	Hudson's Bay Co.	

SESSIONAL PAPER No. 14

TONIC WINES.—PART I—*Continued.*

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Ccs. $\frac{N}{10}$ K O H per 100 ccs.	Acidity gms. Tartaric Acid per 100 ccs.	Reducing Sugar as Dextrose.	Total Solids.	Non-Sugar Solids.	Remarks, Alkaloids, etc.			
A. C. LARIVIÈRE, INSPECTOR.									
Vin St. Michel....								45804	
Wilson's Invalid Port Wine.								45805	
Vin St. Michel....								45806	
Kola Tonic Wine..	62·9		10·73	14·35	3·62	Salicylic acid 0·0733 gms. per 100ccs. gives reaction for caffeine, indicating kola.		45807	
Murray's Orange Quinine Wine.	38·7		3·60	7·01	3·41	Quinine by titration 0·713 gms. per litre.		45808	
R. W. FLETCHER, INSPECTOR.									
Vin St. Michel....		0·30	17·80					43929	
Wilson's Invalid Port Wine.								43930	
Lyman's Quinine Wine.	129·9		14·09	18·24	4·15	Quinine by titration 1·490 gms. per litre.		43931	
Vin Tonique Mariana.		0·49	6·19 after inversion.	8·17		Cane sugar 0·52 % alkaloids, 70 mgms. per litre. Contains cocaine		43932	
Vin St. Michel....			17·13			Caramel in considerable amount in all samples Vin St. Michel.		43933	
J. F. POWER, INSPECTOR.									
		0·47	10·92			Specifically undetermined alkaloids 45 mgms. per litre.		38004	
		0·37	8·55	10·51	1·96	Specifically undetermined alkaloids 20 mgms. per litre.		38005	
		0·81	19·30	22·41	3·11	Volatile acid 0·06 p.c., alkaloids by crystallization 102 mgms. per litre, principally quinine. Quinine by titration = 89·6 mgms.		38006	
	41·61		2·88	4·13	1·25	Quinine by titration 0·178 gms. per litre.		38007	
		0·76	15·83	18·69	2·86	Volatile acid 0·16 p.c.		38008	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufactures or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufactuser.	Furnisher.
			DISTRICT OF VICTORIA—				
1910.							
Oct. 20	Tonic Wine ..	44995	John Cochrane, Victoria, B.C.	3 bots.	300	Lyman's. Ltd., Montreal.	....
" 20	" ..	44996	Hall & Co., Victoria, B.C.	3 " ..	300	F. Stearns & Co., Windsor, Ont.	.. ..
" 20	" ..	44997	F. J. Williams, Victoria, B.C.	3 " ..	300	Nat. Drug & Chem. Co., Victoria, B.C.	.. .. ..
" 24	" ..	44998	Nat. Drug & Chem. Co., Victoria, B.C.	3 " ..	300	Nat. Drug & Chem. Co., Montreal.	.....
" 24	" ..	44999	Dean & Hiscocks, Victoria, B.C.	3 " ..	300	.. ..	Houde & Co., Vanc.

SESSIONAL PAPER No. 14

TONIC WINES—PART I.—*Concluded.*

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Ccs. $\frac{N}{10}$ KOH per 100ccs.	Acidity gms. Tartaric Acid per 100ccs.	Reducing Sugar as Dextrose.	Total Solids.	Non-Sugar Solids.	Remarks, Alkaloids, etc.			
D. O'SULLIVAN, INSPECTOR.									
Vin De Veal.....	.....	0·92	17·89	22·96	5·07	Specifically undetermined alkaloids 44 mgms. per litre.		44995	
Vin de Stearns....	....	0·58	7·53	11·65	4·12	Specifically undetermined alkaloids 46 mgms. per litre.		44996	
Wilson's Invalid Port.	.....	.....	.....	.....	..	.....	.....	44997	
Quinine Wine.....	40·6	.....	1·17	2·30	1·13	Quinine by titration 0·405 gms. per litre.		44998	
Kemp's Invalid Port.	...	0·33	6·82	8·66	1·84	....		44999	

BULLETIN No. 261—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
								DISTRICT OF MONTREAL—
1912.								
Dec. 20	Tonic Wine.	51031	Hudson Hebert & Cie, Ltd., St. Sulfice St., Montreal.	3 bots.	213			Vin St. Michel.
" 20	"	51032	"	3 "	175			Vin Phosphat au quinquine La Trapp.
" 20	"	51033	"	3 "	175			Vin des Carmes
" 20	"	51034	"	3 "	175			Campbell's Quinine Wine
" 20	"	51035	J. H. Goyer, 1759 St. Lawrence B, Montreal.	3 "	197	Rex Chem. Co.		Rex Quinine Wine.
" 23	"	51036	Hudon & Orsali, St. Paul St., Montreal.	3 "	188			Vin St. Martin.
" 23	"	51037	"	3 "	250			Dubonnet
" 23	"	51038	"	3 "	250			Byrrh
" 23	"	51039	Lymans Ltd., St. Paul St., Montreal.	3 "	150	Vendors		Lyman's Quinine Wine.
" 23	"	51040	"	3 "	213	H. K. W. Co., Ltd.		Wampole's Digestive Kola Wine.
" 26	"	51041	The Nat. Drug & Chem. Co., Ltd., Montreal.	3 "	138	Vendors		Na-Drug-Co. Quinine Wine.
" 26	"	51042	"	3 "	225	L. A. Wilson, Montreal.		Wilson's Invalid Port.
" 26	"	51043	"	3 "	150	Vendors		Carter's Quinine Wine.
" 27	"	51044	John J. Weinfeld, Bleury St., Montreal.	3 "	275			St. David's Invalid Port.
" 27	"	51045	Elp. Ethier, 933 Notre Dame. W., Montreal.	3 "	255	F. L. Wooley, Montreal.		Imperial Quinine Wine.
" 27	"	51046	"	3 "	300	Universal Drug Co.		Vin. St. Celestine.
1913.								
Feb. 5	"	51047	The Chapman Dart Co., Craig St. W., Montreal.	3 "	150	Vendors		Wattson's Tonic Wine.

SESSIONAL PAPER No. 14

TONIC WINES.—PART II.

Acidity as Tartaric Acid gms. per 100cc.	Alcohol per cent by Volume.	Extract Calc. from sp. gr. gms. per 100cc.	Reducing Sugar as Dextrose gms. per 100cc.	Cane Sugar.	Non-Sugar Solids.	Quinine by Weight gms. per litre.	Quinine by Titration.	Remarks, Alkaloids, etc.	No. of Sample.	Remarks and Opinion of the Chief Analyst
					Results of Analysis.					
J. J. COSTIGAN, INSPECTOR.										
0·41	14·84	18·63	15·71	0·71	2·75	..	.....	Crude alkaloids 6 mgms. per litre, strongly coloured with caramel.	51031	
0·99	13·62	17·43	14·24	.	3·19	0·066	...	Cinchona alkaloids 77·3 mgms. per litre. A small amt. of caffeine and aniline dye present.	51032	
0·50	11·75	22·25	13·45	6·94	1·84	.....	.....	.....	51033	
0·37	16·52	3·02	1·60	..	1·42	1·269	1·232	.....	51034	
0·58	16·33	4·16	2·00	.....	2·16	0·106	.....	.....	51035	
0·66	11·52	21·40	18·03	.....	3·37	..	....	Cinchona alkaloids, principally quinine 153·5. Bears an Inland Revenue stamp in stock prior to April, 1909.	51036	
0·43	17·86	20·05	18·77	.	1·28	..	....	Principally cinchonidine 93·5 mgms per litre.	51037	
0·44	20·20	13·91	12·04	...	1·87	.	.....	Cinchona alkaloids 21·7 mgms. per litre.	51038	
0·81	18·03	12·35	9·59	...	2·76	1·500	13·93	.....	51039	
0·67	15·14	21·66	18·02	.....	3·64	.	. .	Caffeine, about 0·75 gms. per litre.	51040	
0·28	16·70	1·50	0·52	.....	0·98	0·447	0·445	.....	51041	
...	....	....	....	....	....	..	....	.....	51042	
0·36	16·33	6·88	3·27	2·66	0·95	0·756	0·729	.....	51043	
0·62	15·86	16·39	13·95	.	2·44	....	....	.....	51044	
0·48	15·77	13·31	5·00	5·46	2·85	0·979	0·955	.....	51045	
0·51	15·68	10·92	8·12	...	2·80	.	.....	Cinchona alkaloids 24·3 mgms. per litre. Contains an aniline dye.	51046	
0·55	13·90	12·30	3·17	6·19	2·94	...	.....	Cinchona alkaloids, mostly quinine, some cinchonidine 458·7 mgms. per litre. Contains an aniline dye.	51047	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
						DISTRICT OF MONTREAL—		
1913.								
Feb. 6	Tonic Wine.	51048	Lanctot & Brault, St. Lawrence Blvd., Montreal.	3 bots.	300	Henri Lanctot, Montreal.	.. ..	Vin de Quiniquina.
" 6	"	51049	" ..	3 " ..	375	Burroughs, Wellcome & Co., London, Eng.	... ...	Vance Tonic Wine.
" 6	"	51050	A. Lefaivre, 337 Ontario E., Montréal.	3 " ..	200	Vendor	....	Kina Lefaivre.
						DISTRICT OF TORONTO—		
Jan. 8	Tonic Wine.	51533	Liggetts Ltd, 224 Yonge St., Toronto.	3 bots.	300	United Drug Co., Ltd., Toronto.	.. ..	Rexall Wine of Cod Liver Extract, containing 24% alcohol.
" 8	"	51534	The T. Eaton Drug Co., Ltd., Toronto.	3 " ..	100	Vendors.....		Lewis Quinine Wine.
" 8	"	51536	The United Drug Co., Ltd., Lake St., Toronto.	3 " ..	103	"		Rexall Celery and Iron Tonic.
" 8	"	51537	The Turner Co., Ltd., 106 Front St. east, Toronto.	3 " ..	150	"		Turner's Invalid Port.
" 8	"	51538	Hygiene Kola Co., Ltd., 12 Agnes St., Toronto.	3 " ..	225	"		Hygiene, Kola, Celery and Pepsin.
" 9	"	51539	The Chemists Co. of Canada, Ltd., 92 Sherbourne St., Toronto.	3 " ..	155	"		Ontario Chemists Quinine Wine.
" 9	"	51542	The T. A. Lytle Co., Ltd., Sterling Road, Toronto.	3 " ..	125	"		Lytle's Medicated Invalid Port.
" 9	"	51543	J. P. Taylor, 1487 Queen St. west, Toronto.	3 " ..	300	.....	E. G. West & Co., Toronto.	"Diamond Brand Invalids' Port' Wine à la quinia du Perou.

SESSIONAL PAPER No. 14

TONIC WINES.—PART II—*Continued.*

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Acidity as Tartaric Acid gms. per 100ccs.	Alcohol per cent. by Volume.	Extract Calc. from sp. gr. gms. per 100ccs.	Reducing Sugar as Dextrose gms. per 100ccs.	Cane Sugar.	Non-Sugar Solids.	Quinine by Weight gms. per litre.	Quinine by Titration.	Remarks, Alkaloids, etc.			
Concluded.											
0·60	13·43	16·18	10·13	.....	6·05	0·355	.. .	A large proportion of cinchonidine.		51048	
3·30	20·06	24·14	19·84	.....	4·30	....	..	Quinine and cinchonidine, 190 mgms. per litre		51049	
0·70	13·15	12·87	10·16	.....	2·71	.....	.....	Quinine 22·6 mgms. per per litre.		51050	

H. J. DAGER, INSPECTOR.

0·55	23·10	13·31	7·51	2·21	3·49	. ...	.....	No alkaloids....	51533	
0·41	8·45	24·91	14·67	7·80	2·44	1·624	1·587	.....	51534	
0·38	18·16	17·12	11·46	6·40	5·26	.....	... .	No alkaloids. Ash = 0·330 gms. per 100ccs. Iron = 0·018 gms. per 100ccs. $Fe_2 O_3$.	51536	
0·72	12·96	13·49	11·02	. .. .	2·47	.....	....	Cinchona alkaloids about 15 mgms. per litre. Contains salicylic acid and an aniline dye.	51537	
0·50	2·50	17·20	8·75	5·45	3·00	.....	.....	Caffeine about 75 mgms. per litre, celery extract present, coloured with caramel. Contains a large amount of salicylic acid.	51538	
0·88	14·84	10·37	7·12	0·46	2·79	0·608	0·567	....	51539	
0·67	9·13	19·86	15·95	1·22	2·69	.....	.....	Cinchona alkaloids, principally quinine, 43 mgms. per litre. Contains benzoic acid and an aniline dye.	51542	
0·92	9·54	18·35	15·77	.....	2·58	. ...	. ....	A large amount of salicylic acid and an aniline dye. Trace of alkaloids.	51543	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher	
								DISTRICT OF TORONTO—
1913.								
Jan. 9	Tonic Wine.	51544	Canadian Wine Co., 887 Queen St. west, Toronto.	3 bots.	165	Vendors ...	....	Invalids' Fine Old Port Wine.
" 11	"	51548	T. F. Carey, 84 Queen St. west, Toronto.	3 " ..	210	....	Unknown	Royal Crest Port Wine.
" 14	"	51586	G. Tamblyn, 1674 Dundas St. west, Toronto.	3 " ..	255	....	Vendor ...	Wilson's Invalid Port.

SESSIONAL PAPER No. 14

TONIC WINES.—PART II—*Continued.*

Results of Analysis.									No. of Sample.	Remarks and Opinion of the Chief Analyst.
Acidity as Tartaric Acid gms. per 100ccs.	Alcohol per cent. by Volume.	Extract Calc. from sp. gr. gms. per 100ccs.	Reducing Sugar as Dextrose gms. per 100ccs.	Cane Sugar.	Non-Sugar Solids.	Quinine by Weight gms. per litre.	Quinine by Titration.	Remarks, Alkaloids, etc.		

Concluded.

0·74	11·87	17·58	15·55	.....	2·03	.....	.....	Contains salicylic acid and an aniline dye.	51544	
0·71	10·38	15·48	13·17	.....	2·31	.....	.....	A large amount of salicylic acid and an aniline dye.	51548	
0·63	15·12	11·86	9·25	.....	2·61	.....	.....	Alkaloids 13 mgms. per litre. Gives test for quinine.	51586	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
						DISTRICT OF TORONTO—		
1913.								
Jan. 7	Tonic Wine.	51531	The Nat. Drug & Chem. Co., Ltd., Toronto.	3 bots.	150	Vendors		Na-Drug-Co. Beef, Iron and Wine.
" 8	"	51532	G. Tamblyn, 232½ Yonge St., Toronto.	3 " ..	100	Vendor		Tamblyn's Beef, Iron and Wine.
" 8	"	52535	The United Drug Co., Ltd., Lake St., Toronto.	3 " ..	100	Vendors		Predigested Beef, Iron and Wine.
" 9	"	51540	The Druggists' Corporation, 82 Church St., Toronto.	3 " ..	85	"		Beef, Iron and Wine.
" 9	"	51541	F. E. Karn Co., Ltd., Queen & Victoria Sts., Toronto.	3 " ..	75	"		" ..
" 10	"	51545	T. P. Hartley, 411½ Parliament St., Toronto.	3 " ..	90		Toronto Phar. Co., Ltd., Toronto.	" ..
" 10	"	51546	H. O. Wilson, 374 Queen St. west, Toronto	3 " ..	200	Toronto Phar. Co., Ltd., Toronto.		" ..
" 11	"	51547	The Robt. Simpson Co., Ltd., Yonge & Queen Sts., Toronto.	3 " ..	120	Vendors		Morden's Beef, Iron and Wine.
" 14	"	51549	F. Merck, Danforth Ave. & Main Sts. east, Toronto.	3 " ..	150	H. K. Wampole, Perth, Ont.		Beef, Iron and Wine.

SESSIONAL PAPER No. 14

TONIC WINES.—PART II—*Concluded.*

Results of Analysis.									No. of Sample.	Remarks and Opinion of the Chief Analyst.
Acidity as Tartaric gms. per 100ccs.	Alcohol per cent. by Volume.	Extract Calc. gms. per 100ccs.	Reducing Sugar as Dextrose.	Cane Sugar.	Non-Sugar Solids.	Total Ash.	Iron as Fe_2O_3.	Total Nitrogen.		
H. J. DAGER, INSPECTOR.										
0·40	16·24	18·43	13·31	0·90	4·22	0·435	0·143	0·022	51531	
0·58	14·18	12·20	9·00	.....	3·20	0·239	0·007	0·020	51532	
0·93	24·78	22·59	7·87	6·75	7·97	1·557	0·237	0·294	51535	
0·42	12·58	13·92	6·87	1·38	5·67	0·701	0·064	0·084	51540	
0·72	9·95	18·08	13·90	.....	4·18	0·361	0·206	0·034	51541	
0·15	17·70	9·57	1·67	5·83	2·07	0·205	0·147	0·066	51545	
0·16	17·26	9·08	2·23	4·72	2·13	0·204	0·143	0·058	51546	
0·54	14·74	13·38	7·30	.....	6·08	0·597	0·206	0·248	51547	
0·54	15·68	19·81	16·50	.....	3·31	0·252	0·113	0·034	51549	

APPENDIX E.

BULLETIN No. 262—LIME FRUIT JUICE.

OTTAWA, July 12, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—In Bulletins No. 83 (Dec., 1902) and No. 197 (Jan., 1910) were reported studies of Lime Fruit Juice, having for their object the exact definition of the article, under Sec. 26 of the Adulteration Act. This definition became law in February, 1911, by Order-in-Council of that date; and is published as Circular G. 947 by this Department. The Order-in-Council referred to, deals with the general subject of Beverages. So far as Lime Fruit Juice is concerned it contains the followin:

5. LIME JUICE, LIME FRUIT JUICE, is the fresh fruit juice obtained from lime fruit (Citrus limetta); has a specific gravity at 20°C. not less than 1·030, and not greater than 1·040, and contains not less than ten (10) per cent of solids and not less than seven (7) per cent of free citric acid. Its optical activity (rotatory power to polarized light) lies between the limits + 0°5 and — 0°5 of the Soleil-Ventzke scale, when observed in a column of 200 mm. length, at 20°C.

Only five samples out of thirty herein reported fully meet the requirements of the legal Standard above. Among the others several approximate more or less closely to it, but at least thirty per cent of the collection gives unmistakable evidence of being reduced by addition of water; or made from a second pressing of the fruit (Nachpresse), which amounts to the same thing. While nothing harmful to health is introduced, it is clearly unfair to the consumer, and to the honest manufacturer, that a diluted fruit-juice should be tolerated on the market, while offered as genuine. If properly labelled, so as to declare the presence of water, no harm would be done, and Sec. 24 of the Act covers such case.

I beg to recommend the publication of this report, rather as a means of drawing public attention to the matter, than as a basis for prosecution. It deals with a very limited inspection, and is the first inspection of Lime Fruit Juice since the legal defining of the article.

An extensive collection of samples will be made in the near future with a view to enforcing the requirements of the Act.

I beg to recommend the publication of this report as Bulletin No. 262.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF MONTREAL—	
1912.							
Dec. 20	Lime Juice.....	51051	Laporte, Martin Cie, Ltd., St. Paul St., Montreal.	3 bots.	70	Dalton Bros., Toronto.	.....
" 20	"	51052	" " ..	3 " ..	94	.....	.....
" 20	"	51053	" " ..	3 " ..	40	T. A. Lytle Co., Ltd.	.....
" 20	"	51054	H. E. Archambault, 78 Notre Dame east, Montreal.	3 " ..	75	....	.....
" 20	"	51055	J. H. Goyer, 179 St. Lawrence B., Montreal.	3 " ..	75	N. D. & C. Co., Co., Ltd.	.....
" 21	"	51056	M. Albert, St. Lawrence B., Montreal.	3 " ..	75	Rose Co., Ltd., London.	.....
" 23	"	51057	Lymans, Ltd., St. Paul St., Montreal.	3 " ..	45	Vendors.....	.....
" 26	"	51058	Nat. Drug & Chem. Co., Ltd., St. Gabriel St., Montreal.	3 " ..	56	"	.....
" 26	" ...	51059	" " ..	3 " ..	69	"	.....
" 26	"	51060	L. McEwen Co., Ltd., St. Urbain St., Montreal.	3 " ..	63	Bottled by vendors.	.....
" 26	"	51061	E. P. Dame, Blewery St., Montreal.	3 " ..	75	.....	.....
1913.							
Feb. 4	" ...	51062	L. Gougeon, Dorchester St. west, Montreal.	3 " ..	60	Sutcliffe, Bingham, Ltd., Manchester.	.....
						DISTRICT OF TORONTO—	
1912.							
Dec. 19	Lime Fruit Juice	51551	The T. A. Lytle Co., Ltd., Sterling Road, Toronto.	3 bots.	24	Vendors.....	.....
" 20	" ..	51552	Fred Coward, 402 Spadina Ave., Toronto.	3 " ..	60	.....	Cordellio Fruit Co., Toronto.
" 20	" ..	51553	R. Lawson, 350 Spadina Ave., Toronto.	3 " ..	75	.....	Unknown.....
" 23	" ..	51554	The Nat. Drug & Chem. Co., Ltd., 27-29 Wellington St., Toronto.	3 " ..	75	Vendors.....	.. ..
" 23	" ..	51555	Dalton Bros., 11 Front St. east, Toronto.	3 " ..	30	"	.....
" 23	" ..	51556	E. G. West & Co., 11 George St., Toronto.	3 " ..	56	"	.....

SESSIONAL PAPER No. 14

LIME FRUIT JUICE.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Juice.	Total Solids.	Acidity cc. $\frac{KOH}{N}$	Acidity as Citric Acid.	Rotation (2 dm.)	Preservatives.		
J. J. COSTIGAN, INSPECTOR.								
		p. c.		p. c.				
.....	1·033	7·9	92	6·5	− 0·5	Benzoic acid ..	51051	Below standard in solids and in citric acid.
"Montserrat".....	1·035	10·0	117	8·19	0·2	.....	51052	Genuine.
"Sterling".....	1·025	6·0	74	5·2	..	.....	51053	Below standard in solids and in citric acid and density. Adulterated under the act.
"Olympia".....	1·034	8·7	102	7·2	− 0·4	Benzoic acid....	51054	Below standard in solids.
"Sovereign".....	1·030	6·9	96	6·72	− 0·2	" ..	51055	Below standard in solids. Adulterated under the act.
"Rose".....	1·035	8·4	111	7·77	+ 0·3	" ..	51056	Below standard in solids.
"Dominica".....	1·034	10·0	114	7·98	− 0·3	" ..	51057	Genuine.
"Olympia".....	1·024	7·8	102	7·20	...	" ..	51058	Below standard in solids.
"Sovereign".....	1·031	7·2	95	6·65	− 0·2	" ..	51059	Below standard in solids. Adulterated under the act.
.....	1·017	3·6	54	3·78	.....	Salicylic acid....	51060	Diluted with water. Adulterated under the act.
"Sterling" Lime Fruit Juice.	1·030	6·4	82	5·81	+ 0·3	" ..	51061	Below standard in solids and in citric acid. Adulterated under the act.
"Kkovah" Brand.	1·025	6·1	79	5·53	− 0·4	" ..	51062	Below standard in solids and in citric acid. Adulterated under the act.
H. J. DAGER, INSPECTOR.								
"Sterling".....	1·027	6·6	82	5·74	.....	....	51551	Below standard in solids and in citric acid. Adulterated under the act.
"Standard"	1·026	7·1	50	3·50	.....	Salicylic acid ...	51552	Below standard in solids and in citric acid; dyed. Adulterated under the act.
"Olympia" Lime Juice.	1·032	8·5	100	7·00	.....	Benzoic acid.....	51553	Below standard in solids.
"Sovereign" Lime Juice.	1·030	10·0	98	6·86	− 0·2	" ..	51554	Genuine.
"D.B. East India" Lime Juice.	1·027	6·2	81	5·67	.....	" ..	51555	Below standard in solids and in citric acid. Adulterated under the act.
Royal Crest. Non-alcoholic. Vendors were not aware of a standard for Lime Juice until re-	1·020	5·1	65	4·55	.....	Salicylic acid....	51556	" "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
							DISTRICT OF TORONTO—
1912.							
Dec. 23	Lime Fruit Juice	51557	T. E. Robinson, 1098 Queen St. west, Toronto.	3 bots.	75	.....	Unknown ..
" 24	" .	51558	The J. F. Taylor Pharmacal Co., Ltd., 355½ Yonge St., Toronto.	3 " ..	75	Vendors ..	.....
1913.							
Jan. 7	" ..	51559	The Lyman Bros. Co., Ltd., 71 Front St. east, Toronto.	3 "	90	....	Nat. Drug and Chem. Co., Ltd., Toronto.
" 8	" ..	51560	The T. Eaton Drug Co., Ltd., 190 Yonge St., Toronto.	3 " ..	50	Vendors.....	....
" 9	" ..	51561	Drug Trading Co., Ltd., 6-8 Ontario St., Toronto.	3 " ..	52	....	Maclure & Langley, Ltd., Toronto.
" 10	" ..	51562	F. H. Page, 186 Carleton St., Toronto.	3 " ..	75	.....	Drug Trading Co., Ltd., Toronto
" 10	"	51563	Estate of J. R. Lee, Queen and Seaton Sts., Toronto.	3 "	75	....	Unknown.. .
" 10	"	51564	Breen Drug Co., 216 Queen St. east, Toronto.	3 " ..	75	....	Lyman Bros. Co., Ltd., Toronto.
" 10	"	51565	M. E. Bush, 304 College St., Toronto.	3 " ..	75	....	Holbrook, Ltd., Toronto.
" 10	" ..	51566	J. F. Cleary, 409 College St., Toronto.	3 " ..	75	.....	Unknown. . .
" 10	" ..	51567	W. Parkhill, 674 Queen St. west, Toronto.	3 " ..	75	....	Dalton Bros. Toronto.
" 11	" ..	51568	W. Greaors, 593 College St., Toronto.	3 " ..	75	... ...	Nat. Drug. an Chem. Co., Ltd., Toronto.
Apr. 17	Orange Juice....	57165	St. Kitts Bottling Works, John Gallagher, Prop., 35 Centre St., St. Catharines.	3 "	25	Vendors.....	.....

SESSIONAL PAPER No. 14

LIME FRUIT JUICE—*Concluded.*

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Sp. gr. of Juice.	Total Solids.	Acidity cc. $\frac{N}{5}$ KOH	Acidity as Citric Acid.	Rotation (2 dm.)	Preservatives.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
H. J. DAGER, INSPECTOR.—*Concluded.*								
		p. c.		p. c.				
cently. They are withdrawing the present product from the market, and putting on an entirely new one to conform to standard.								
"Rose's" Prepared West India Lime Juice.	1·035	9·0	110	7·70	− 0·3	Benzoic acid....	51557	Nearly up to standard.
"Crystal" Pure Clarified West India Lime Juice.	1·026	6·6	75	5·25	− 0·1	Salicylic acid....	51558	Below standard in solids and in citric acid. Adulterated under the act.
"Montserat" guaranteed pure. Evans Sons, Lescher & Webb, Liverpool.	1·036	10·1	118	8·26	− 0·2	.....	51559	Genuine.
"Eaton's." Pure.	1·031	8·7	98	6·86	− 0·5	Salicylic acid ...	51560	Slightly below standard.
"Kovak" Lime Juice. Sutcliffe & Bingham, Ltd., Manchester.	1·026	6·6	88	6·16	....	" ..	51561	Below standard in solids and in citric acid. Adulterated under the act.
Stower's Pure Lime Juice, Genuine. Contains no alcohol. Alex. Riddle & Co., Ltd., London.	1·030	8·0	93	6·51	− 0·5	"	51562	" "
Pure Lime Juice..	1·031	8·7	100	7·00	...	Benzoic acid....	51563	Nearly meets standard.
Pure Jamacia Lime Juice.	1·035	9·8	113	7·91	+ 0·1	....	51564	Genuine.
Ross's Prepared West India Lime Juice. L. Ross & Co., Ltd., London, Leith and West Indies.	1·035	9·0	110	7·70	+ 0·3	Benzoic acid. ...	51565	Nearly meets standard.
Rowat & Co., mfrs., Glasgow.	1·024	6·1	77	5·39	...	....	51566	Below standard in solids and in citric acid. Adulterated under the act.
Dalton's West India Lime Juice Imported and bottled by Dalton Bros., Toronto.	1·070	17·2	74	5·18	−11·3	Benzoic acid.....	51567	Contains sugar. Below standard in citric acid. Adulterated under the act.
Olmypia Lime Juice.	1·032	8·6	103	7·21	...	" ..	51568	Nearly meets standard.
Labelled St. Kitts Orange Juice.	1·0434	11·5	340	2·38	+13·8	....	57165	Contains 4·8 p.c. sugar and is dyed. Is artificial.

APPENDIX F.

BULLETIN No. 263—CREAM OF TARTAR.

OTTAWA, July 15, 1913.

WM. HIMSWORTH, ESQ.,
Acting Deputy Minister of Inland Revenue.

SIR,—I beg to report upon a collection of 148 samples of Cream of Tartar purchased throughout Canada in February and March of this year,

The last inspection of Cream of Tartar was made in 1910, and the results of analysis are published in Bulletin No. 222. In that report I suggested the advisability of legalizing a standard for a commercial grade of Cream of Tartar, less exacting than that fixed by the British Pharmacopoeia. The B.P. standard described is that for a highly refined article, containing not less than 97·5 per cent of Bi-tartrate of potash.

It will be seen that 49 samples of the present collection reach this high standard, while 94 samples of good quality, and containing about 90 per cent of Bi-tartrate of potash, are relegated to what I have designated as the commercial grade, falling a few per cent lower than B.P. requirements.

Five samples are adulterated as containing starch and other foreign matters.

I beg to recommend publication of this report as Bulletin No. 263.

I have the honour to be, Sir,
Your Obedient Servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA							
1913.							
Mar. 6	Cream of Tartar.	46936	National Drug Co., Halifax, N.S.	¾ lb.	30	Vendors.	
" 6	"	46937	Wm. Moore, Halifax, N.S.	¾ "	25	J. P. Mott & Co., Halifax, N.S.	Mfrs.
" 6	"	46938	R. B. Sceton & Co., Halifax, N.S.	¾ "	21	W. H. Schwartz & Sons, Halifax, N.S.	"
" 10	"	46939	A. J. Baker, Halifax, N.S.	¾ "	30	J. P. Mott & Co., Halifax, N.S.	"
" 10	"	46940	Dillon Bros., Halifax, N.S.	¾ "	30	"	"
" 10	"	46941	W. J. Hopgood & Son, Halifax, N.S.	¾ "	30	W. H. Schwartz & Sons, Halifax, N.S.	"
" 11	"	46942	E. Donohue & Son, Halifax, N.S.	¾ "	21	"	"
" 11	"	46943	Jno. P. Mott & Co., Halifax, N.S.	¼ "	Nil.	Vendors.	
" 24	"	46944	McCulloch, Creelman & Morrison, Truro, N.S.	¾ "	18	Puddington Wetmore & Morrison, St. John, N.B.	Mfrs.
" 27	"	46945	Forsyth Jr., Dartmouth, N.S.	¾ "	30	J. P. Mott & Co., Halifax, N.S.	
DISTRICT OF PRINCE EDWARD ISLAND							
Feb. 27	Cream of Tartar.	46389	L. A. Haszard, Ch. Town, P.E.I.	¾ lb.	30	E. W. Gillett Co., Ltd., Toronto, Ont.	
" 28	"	46390	A. Gates & Co., Ch. Town, P.E.I.	¾ "	30	W. H. Schwartz & Sons, Halifax, N.S.	
" 28	"	46391	Beer & Goff, Ch. Town, P.E.I.	¾ "	30	J. P. Mott & Co., Halifax, N.S.	
" 28	"	46392	P. N. Rowe, Ch. Town, P.E.I.	¾ "	30		N. Rattenbury & Co., Ch. Town
Mar. 5	"	46393	S. Beaton, Bonshaw, P.E.I.	¾ "	30	E. W. Gillett Co., Toronto.	
" 5	"	46394	Lord Co., Cape Traverse, P.E.I.	¾ "	30	Dearborn & Co., Ltd., St. John, N.B.	
" 6	"	46395	P. D. Hogan, Tyrone, P.E.I.	¾ "	30	White Swan Spices & Cereals Ltd., Toronto.	
" 7	"	46396	J. A. Farquharson & Co., Ch. Town, P.E.I.	¾ "	30	J. P. Mott & Co., Halifax	
" 7	"	46397	Carvell Bros., Ch. Town, P.E.I.	¾ "	25	Crown Spice Mills, Halifax	
April 25	"	46398	Dr. F. W. Jardine, Kensington, P.E.I.	¾ "	25	The Nat. Drug & Chem. Co., Halifax.	

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Results of Analysis.

Inspector's Report. Is not an expression of opinion.)	Acidity CC. N. per 100 grams.	Bitartrate of potash expressed as weight.	Lime (CaO).	Phosphates.	Sulphates.	Starch.	Alum (Al_2O_3).	Free Tartaric Acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
R. J. WAUGH, INSPECTOR.		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
	495	93	Present.	..	...	...	.....	...	46936	Genuine.	Com.
	495	93	"	...	....	....	...	.....	46937	"	"
	495	93	"	..	...	...	....	..	46938	"	"
	500	94	"	.....	.....	.....	...		46939	"	"
	500	91	"	..	...	....	....	.	46940	"	"
	500	94	"	...	..	....	....	....	46941	"	
	500	94	"	...	.....	....	.....	....	46942	"	"
	495	93	"	...	.....	...	...	...	46943	"	"
	495	93	"	.....	.....	....	...	...	46944	"	"
	500	94	"	...	.....	...	.....	...	46945	"	"
WM. A. WEEKS, INSPECTOR.											
	525	98	.....	.....	.....	....	.....	.....	46389	Genuine.	B.P.
	500	94	Present.	...	.....	...	.....	.....	46390	Genuine.	Com.
	500	94	"	.....	.....	.....	.....	..	46391	"	"
	490	92	"	...	...	...	.....	..	46392	"	"
	525	98	.....	.....	.....	.....	.....	..	46393	Genuine.	B.P.
	495	93	Present.	.....	.....	.....	.....	...	46394	Genuine.	Com.
	495	93	"	.....	.....	.....	.....	.....	46395	"	"
From Crystal's Imported by J. A. Farquharson Son & Co.	475	89	"	.....	.....	.....	.....	.....	46396	"	"
	510	95	"	..	.....	....	.....	.....	46397	"	"
	515	96	"	...	.....	...	.....	.....	46398	"	"

BULLETIN No. 263—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnish
DISTRICT OF NEW BRUNSWICK—							
1913.							
Feb. 25	Cream of Tartar	50565	H. W. Cole, Ltd., St. John, N.B.	3 pkgs	30	Vendors	
" 25	"	50566	Dearborn & Co., Ltd., St. John, N.B.	3 "	18	"	
" 27	"	50567	Baird & Peters, St. John, N.B.	3 "	7	"	
" 27	"	50568	Puddington, Wetmore, Morrison, St. John, Ltd., N.B.	3 "	21	"	
Mar. 7	"	50569	W. A. Simonds, St. John, N.B.	3 "	60	E. W. Gillett Co., Ltd., Toronto.	
" 7	"	50570	Jones & Schofield, St. John, N.B.	3 "	18		
Apr. 7	"	50571	G. E. Barbour Co., Ltd., St. John, N.B.	3 "	18	Vendors	
" 18	"	50572	C. W. Lewis, Perth, N.B	3 "	30	A. W. Hugman, Ltd., Montreal.	
" 23	"	50573	J. A. Davidson, Sussex, N.B.	3 "	30	Scott's Extract Co., St John, N.B.	
" 24	"	50574	Reed & Co., Ltd., Moncton, N.B.	3 "	25	Jno. P. Mott & Co., Halifax, N.S.	
DISTRICT OF QUEBEC—							
Feb. 26	Cream of Tartar.	37148	H. M. Coté, 23 Chemin St. Foie, Quebec.	3 pkgs	60	E. W. Gillett Co., Toronto.	J. B. Reneaud & Cie, Quebec.
Mar. 3	"	37149	Jos. F. Goslin, 50 Rue D'orchester, Quebec.	3 "	30	"	Turcot & Frére, Quebec.
" 4	"	37150	Charle Martel, 49 Rue Artillery, Quebec.	3 "	30	The Litster Pure Food Co., Toronto.	Mfrs
" 6	"	37151	J. Noel Rondeau, 6 Rue Lachevrotière, Quebec.	3 "	30	"	"
" 7	"	37152	J. P. Miller, 152 Rue St. Jean, Quebec.	3 "	30	E. W. Gillett Co., Toronto.	Whitead & Turner, Quebec.
" 10	"	37153	H. Devarenne, Sillery, Quebec.	3 "	30	"	Mfrs
" 10	"	37154	Thom. Kenny, 258 Rue Champlain, Quebec.	3 "	30	"	"
" 11	"	37155	A. D. Lachauce, Lacarnachiére, Quebec.	3 "	30	Herron & Leblanc, Montreal.	Quebec Preserving Co., Quebec.
" 11	"	37156	Charle Clouet, Beauport, Quebec.	3 "	30	E. W. Gillett Co., Toronto.	J. B. Reneaud & Cie, Quebec.
" 12	"	37157	Mulcaine & Bros., 21 Rue St. Michel, Quebec.	3 "	30		C. H. Cochrane & Co., Ottawa.

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspecter's Report. (Is not an expression of Opinion).	Results of Analysis. Acidity CC. N. per 100 grams.	Bitartrate of potash expressed as weight.	Lime (CaO).	Phosphates.	Sulphates.	Starch.	Alum (Al_2O_3).	Free Tartaric Acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst	
J. C. FERGUSON, INSPECTOR.											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
"Thistle" Brand	500	94	Present.	...	.....	.....	... ..	....	50565	Genuine.	Com.
.. ..	530	99	.....	.....	...	.....	.....	...	50566	"	B.P.
.....	520	97	Present.	.....	.. .	.....	.....	.....	50567	"	"
.....	490	92	"	.. ...	.....	..	.....	.....	50568	"	Com.
.....	520	97·2	.....	...	.....	.....	.....	.....	50569	"	B.P.
"Holly" Brand	500	94	.....	.....	.....	....	.....	.....	50570	"	Com.
"Acorn" Brand .	520	98	.....	.. ...	.. ...	.....	... ..	....	50571	"	B.P.
Hugman's Green Label.	475	89	Present.	... ..	.....	.....	.....	... ..	50572	"	Com.
.....	430	92	"	....	....	.....	....	.....	50573	"	"
... ..	495	93	"	....	.....	.....	...	...	50574	"	"
F. X. W. E. BELAND, INSPECTOR.											
.....	520	97·6	.....	...	.....	.....	....	.....	37148	Genuine.	B.P.
....	525	99	....	.. .	.....	....	.....	....	37149	"	"
....	500	94	Present.	.....	. ...	.....	.....	.....	37150	"	Com.
....	500	94	"	....	.....	....	.....	.....	37151	"	"
....	525	99	..... .	.. ...	.....	.. .	.. ..	.....	37152	"	B.P.
... .	520	98	.....	.....	.....	. ....	.....	....	37153	"	"
... .	530	99·7	.....	....	.....	....	.... .	.....	37154	"	"
. ...	195	.. ..	15·90	8·96	2·06	5·10	1·85	.....	37155	Adulterated.	
... .	525	98	.....	.... .	.....	.....	... .	.... .	37156	Genuine.	B.P.
... .	480	90	Present.	.....	....	.....	.....	.....	37157	"	Com.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF THREE RIVERS—	
1913.							
Mar. 17	Cream of Tartar.	57219	G. H. Read, St. Felix de Valois.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.	
" 17	"	57220	Thos. Guibord, St. Felix de Valois.	3 "	30	"	
" 17	"	57225	Jos. Mosseau, St. Felix de Valois.	3 "	45	"	
" 22	"	57239	C. Barrette, Joliette, P.Q.	¾ lb.	30	Dalley, Hamilton.	
						DISTRICT OF EASTERN TOWNSHIPS—	
Mar. 10	Cream of Tartar.	1512	L. T. Paradis, Victoriaville...	¾ lb.	30		L. Chaput fils & Cie, Montreal.
" 10	"	1523	Maison Normandie, Victoriaville.	3 pkgs	25	S. H. Ewing & Sons, Montreal	
" 13	"	1524	J. E. Gagne, Scott's	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 17	"	1525	Aug. Provencher, Windsor Mills.	3 "	30	Pure Gold Mfg. Co., Toronto.	
" 17	"	1526	A. N. Hutton, Richmond..	3 "	30	White Swan Spices & Cereals Ltd., Toronto.	
" 18	"	1527	J. Audet, jr., Coaticook	3 "	30	S. H. Ewing & Sons, Montreal.	
" 18	"	1528	White & Wiggett, Lennoxville.	3 "	25	Pure Gold, Toronto.	
April 16	"	1529	J. H. Vilandre & Cie, Danville.	3 "	25	The F. F. Dalley Co., Ltd. Hamilton.	
" 17	"	1530	J. A. Lavoie, Danville	3 "	30	E. W. Gillett Co. Ltd., Toronto.	
" 17	"	1531	E. Turgeon, Roxton Falls	3 "	..	"	
						DISTRICT OF MONTREAL—	
Mar. 11	Cream of Tartar.	51246	Dupuis Frere, St. Catherine St. East, Montreal.	3 pkgs	25	A. W. Hugman, Ltd., Montreal	
" 11	"	51247	E. Goudry, 31 Laurier Ave., West, Montreal.	3 "	30	E. W. Gillett Co. Ltd. Toronto.	
" 17	"	51248	H. Russell, 847 St. Catherine West, Montreal.	3 tins.	30	McLaren's Ltd.,	
" 17	"	51249	S. J. Geddes, 705 St. Catherine West, Montreal.	3 pkgs	30	S. H. Ewing & Son.	
" 17	"	51251	W. Brouillet, 555 University St., Montreal.	3 "	15	McLaren's, Ltd.	
" 18	"	51252	A. Poitrais, Mt. Royal Ave., West, Montreal.	3 "	30	The Litster Pure Food Co., Ltd.	
" 18	"	51253	G. E. Beauvais & Cie, 276 Sherbrooke W., Montreal.	3 "	15	S. H. Ewing & Son.	

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity CC. N. per 100 grams.	Bitartrate of potash expressed as weight.	Lime (CaO).	Phosphates.	Sulphates.	Starch.	Alum (Al_2O_3).	Free Tartaric Acid.		
DR. V. P. LAVALLEE, INSPECTOR.										
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
	520	98							57219	Genuine B. P.
	520	98							57220	"
	520	98							57225	"
	495	93·1	Present.						57239	Genuine Com.
J. C. ROULEAU, INSPECTOR.										
	490	99	Present.						1512	Genuine B.P.
	394	74·07	5·10			15·30			1523	Adulterated with starch.
	525	98							1524	Genuine B.P.
	495	93·06	Present.						1525	Genuine. Com.
	505	93·40	"						1526	"
	414	77·83	"			13·70			1527	Adulterated with starch
	495	93·06	"						1528	Genuine. Com.
	500	94	"						1529	"
	520	98							1530	Genuine B P.
	520	98							1531	"
J. J. COSTIGAN, INSPECTOR.										
	475	89	Present.						51246	Genuine. Com.
	520	98							51247	Genuine B.P.
	500	94	Present.						51248	Genuine. Com.
Prince of Wales Brand.	495	92	"						51249	"
	500	94	"						51251	"
	505	94	"						51252	"
Trade Brand	495	93·06	6·40						51253	

5 GEORGE V., A. 1915

BULLETIN No. 263

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF VALLEYFIELD—							
1913.							
Mar. 13	Cream of Tartar.	51346	J. Z. Daoust, Valleyfield, P.Q.	3 pkgs	30	The Litster Pure Food Co., Ltd.	.....
" 13	"	51347	The Industrial Co-Op. Society, Ltd., Valleyfield, P.Q.	3 " ..	30	F. F. Dalley Co., Ltd.	.....
" 19	"	51348	McCuaig, Cheney & Co, Vankleek Hill, Ont.	3 " ..	30	Pure Gold Mfg. Co., Ltd.	.....
" 20	"	51349	A. M. Steele, Hawkesbury, Ont.	3 " ..	30	Birks Corner Co., Montreal.	.....
" 24	"	51350	D. J. McDonald, Alexandria, Ont.	3 " ..	30	F. F. Dalley Co., Ltd.	.....
" 24	"	51351	" " ..	3 " ..	30	Forbes Bros., Montreal.	.....
" 24	"	51352	John Boyle, Alexandria, Ont.	3 " ..	30	.....	.....
" 24	"	51353	A. Markson, Alexandria, Ont.	3 " ..	30	J. V. Boudrais, Montreal.	.....
" 24	"	51354	E. J. Devers, Alexandria, Ont.	3 " ..	30	T. W. Chamberlin Co., Prescott.	.....
DISTRICT OF OTTAWA—							
Feb. 21	Cream of Tartar.	51703	T. F. Dextras, Cornwall.....	3 pkgs	30	Gorman, Eckert & Co., Ltd., London, Ont.	Mfrs .....
" 22	"	51721	Thos. Stevens, Carleton Place.	3 " ..	30	Geo. Robertson & Son, Kington.	" .....
" 25	"	51722	Hugh Fraser & Son, Winchester.	3 " ..	30	Birks, Corner & Co. Montreal.	" .....
" 25	"	51723	A. Sweet & Co., Winchester..	3 " ..	30	Vendors.....	.....
" 27	"	51724	S. Dignard, St. Patrick St., Ottawa.	3 " ..	30	Windsor Spice Mills.	Provost & Allard, Ottawa.
28	"	51725	S. G. Lindsay, Aylmer, P.Q.	3 " ..	15	White Swan Spices & Cereals Co., Ltd., Toronto.	Mfrs .....
" 28	"	51726	M. E. Cormier Aylmer, P.Q.	3 " ..	30	E. W. Gillett Co., Ltd., Toronto.	H. N. Bate & Sons, Ottawa.
" 28	"	51727	P. Daoust & Cie, Hull, P.Q ..	3 " ..	30	The F. F. Dalley Co., Ltd., Hamilton.	Mfrs .....
" 28	"	51728	A. Labelle, Hull, P.Q.....	3 " ..	30	C. H. Cochrane & Co., Ottawa.	" .....
" 28	"	51729	E. McEwen, Hull, P.Q.	3 " ..	30	Litster Pure Food Co., Ltd., Toronto.	" .....

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Acidity CC. N. per 100 grams.	Bitartrate of potash expressed as weight.	Lime (CaO).	Phosphates.	Sulphates.	Starch.	Alum (Al_2O_3).	Free Tartaric Acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst	
J. J. COSTIGAN, ACTING INSPECTOR.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
	510	95	Present.						51346	Genuine.	Com.
	490	92	"						51347	"	"
	520	98							51348	"	B.P.
	520	95	Present.						51349	"	Com.
	490	92	"						51350	"	"
	490		11·60	7·50	9·20	5·70	0·67		51351	Adulterated.	
Put up with vendor's name on pk'gs. by T. W. Chamberlain & Co., Prescott, Ont.	470	89	Present.						51352	Genuine.	Com.
	480	90	"		Present.				51353	"	"
	505	93·40							51354	"	"
J. A. RICKEY, INSPECTOR.											
Labelled pure ground Cream of Tartar.	500	94	Present.						51703	Genuine.	Com.
"Charm." Absolutely pure.	495	93	"						51721	"	"
	505	94·7	"						51722	"	"
Put up for vendors by T. Chamberlain & Co., Prescott.	480	90	4·0						51723	"	"
"Reina" Brand	535		16·80	8·70	4·98	7·00	2·23		51724	Adulterated.	
"White Swan" Brand.	490	92	Present.						51725	Genuine.	Com
Guaranteed to be chemically pure.	520	98							51726	"	B.P.
Daley's pure Cream of Tartar.	495	93	Present.						51727	"	Com.
Guaranteed pure	490	92	"						51728	"	"
Pure French Cream of Tartar.	510	95							51729	"	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF KINGSTON—	
1913.							
Mar. 10	Cream of Tartar.	45772	Newman Livingston, Napanee.	3 pkgs	30	E. W. Gillet Co., Toronto.	
" 10	"	45773	R. Elvins, Belleville	3 "	30	White Swan, Toronto.	
" 10	"	45774	H. E. Fairfield, Belleville	3 "	30	J. M. Lowes Co., Toronto.	
Feb. 20	"	53062	W. J. Arniel, Kingston	3 "	30	N. C. Polson, Kingston.	
" 20	"	53063	W. J. Nesbit "	3 "	30	J. M. Lowes Co., Ltd., Toronto.	
" 20	"	53064	C. Saunders "	3 "	30	E. W. Gillett Co., Toronto.	
" 21	"	53065	D. B. Gage "	3 "	30	"	
" 21	"	53066	Geo. Gibson "	3 "	30	J. M. Lowes Co., Ltd., Toronto.	
" 24	"	53067	S. R. Artis, Belleville	3 "	45	E. W. Gillett Co., Toronto.	
" 25	"	53070	S. Sleeman, Port Hope	3 "	30	White Swan Co., Ltd., Toronto.	
						DISTRICT OF TORONTO	
Feb. 28	Cream of Tartar.	57021	J. J. Ilmurray, 234 Bolton Ave., Toronto.	3 pkgs	15		Dalton Bros., Toronto.
" 28	"	57022	John Kelday, 366 Ossington Ave., Toronto.	3 "	15		Todhunter, Mitchell & Co., Toronto.
Mar. 5	"	57023	J. A. Powell, 255 Danforth Ave., Toronto.	3 "	15		The Carter Drug Co., Toronto.
" 6	"	57024	J. & W. McFarren, 214 Queen St. east, Toronto.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 6	"	57025	F. Gench, 356 Queen St. east, Toronto.	3 "	15	Dalton Bros., Toronto.	
" 6	"	57026	A. Bell, 1906 Queen St. east, Toronto.	3 "	15	The J. M. Lowes Co., Ltd., Toronto.	
" 7	"	57027	Mrs. E. Shuttleworth, 1545 Dundas St. west, Toronto.	3 "	15		R. B. Hayhoe & Co., Toronto.
" 7	"	57028	J. H. Rountree, 1995 Dundas St. west, Toronto.	3 "	15	Pure Gold M'fg. Co., Ltd., Toronto.	
" 10	"	57029	E. Dawe, 339 Spadina Ave., Toronto.	3 "	15		R. B. Hayhoe & Co., Toronto.
" 10	"	57030	H. W. Scott, 266 Spadina Ave., Toronto.	3 "	15		The J. M. Lowes Co., Ltd., Toronto.

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Results of Analysis.

Inspector's Report. (Is not an expression of opinion).	Acidity CC. N. per 100 grams.	Bitartrate of pot-ash expressed as weight.	Lime (CaO).	Phosphates.	Sulphates.	Starch.	Alum (Al_2O_3).	Free Tartaric Acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
JAS. HOGAN, INSPECTOR.											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
	520	98	...	.....	.	..	....	....	45772	Genuine.	B.P.
...	480	90	Present.		.....	-	.....	...	45773	"	Com.
....	510	96	"	.....	.....	...	..	.....	45774	"	"
... ...	490	92·1	"	. .	..	....	.	....	53062	"	"
.. ...	475	89	"		.	..		...	53063	"	"
....	525	98·7	...	.	.....	....	.....	...	53064	"	B.P.
.. ..	525	98·7	...	.....	.....	.....	.....	.....	53065	"	"
....	500	94	Present.	.....	.....	.....	.....	.....	53066	"	Com.
.. ..	525	98	.....	.....	....	....	.....	....	53067	"	B.P.
....	485	91	Present.	...	...	...	.....	.....	53070	"	Com.
H. J. DAGER, INSPECTOR.											
Labelled Dalton's perfectly pure Cream of Tartar.	510	96	Present.	..	...	..	..	.....	57021	Genuine.	Com.
Labelled Todhunter's Pure Select Cream of Tartar.	500	94	"	...	..	.	.....	...	57022	"	"
Labelled Carter's Pure Cream of Tartar.	495	93·2	"	.....	.	...	...	..	57023	"	"
Guaranteed chemically pure.	520	98	.....	...	.	....	....	57024	"	B.P.
Dalton's Perfectly Pure Cream of Tartar.	510	96	Present.	....	...	...	.....	.....	57025	"	Com.
The J. M. L. First Quality Pure Cream of Tartar.	510	96	"	.	.	....	.	57026	"	"	
Hayhoe's Cream of Tartar. Absolutely pure.	485	91	.	...	...	...	...	..	57027	"	"
Pure Gold Cream of Tartar. Quality guaranteed.	510	96	...	..	..	..	..	57028	"	"	
Hayhoe's Cream of Tartar. Absolutely pure.	485	91	Present.	..	..	.	..	.....	57029	"	"
The J. M. L. First Quality Pure Cream of Tartar.	516	96	.. ..	.....	.	.	....	..	57030	"	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF HAMILTON—				
1913.							
April 9	Cream of Tartar.	57121	J. H. Adams, 54 Peel St., Brantford.	3 pkgs	28	....	Pure Gold Mfg. Co., Ltd., Toronto.
" 10	"	57122	Chas. McCausland, Paris.....	3 "	30	.....	Geo. Foster & Son, Brantford
" 11	"	57123	Mrs. G. H. Archer, Lynden..	3 "	30	....	Unknown. .....
" 14	"	57124	John Nott & Son, Dunnville..	3 "	30	.....	Gorman Eckert Co., Ltd., London, Ont.
" 14	"	57125	W. N. Moot & Son, Dunnville	3 "	30	....	Balfour Smye & Co., Hamilton.
" 17	"	57126	John Muir, 29 Queen St. Niagara Falls, Ont.	3 "	30	Todhunter Mitchell & Co., Toronto.	.....
" 18	"	57127	W. L. Effrick, 173 Main St., Niagara Falls South.	3 "	30	McLaren's Ltd., Hamilton.	....
" 18	"	57128	W. Carroll, 232 York St., Hamilton.	3 "	30	The F. F. Dalley Co., Ltd., Hamilton.	.....
" 18	"	57129	G. Hitzroth, 89 Napier St., Hamilton.	3 "	15	" ..	....
" 19	"	57130	H. Spicer, 89 Agusta St., Hamilton.	3 "	15	....	Unknown. .....
			DISTRICT OF WINDSOR—				
Mar. 3	Cream of Tartar.	47947	Bradley & Son, Chatham, Ont	3 pkgs	30	E. W. Gillet Co. Toronto.	.. ..
" 3	"	47950	Alfred Deloge, Chatham, Ont.	3 "	30	Gorman Eckert Co., London, Ont.	....

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.									No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity CC. N. per 100 grams.	Bitratrate of potash expressed as weight.	Lime (CaO).	Phosphates.	Sulphates.	Starch.	Alum (Al_2O_3).	Free Tartaric Acid.			
H. J. DAGER, ACTING INSPECTOR.											
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
Labelled 'Pure Gold' Cream of Tartar. Quality guaranteed.	525	98·7	.....	.....	.....	.....	.....	.....		57121	Genuine B.P.
Labelled Gillet's ground Cream of Tartar guaranteed to be chemically pure.	520	98	.....	.....	.....	.....	.....	.....		57122	"
"Red Feather" quality pure French Cream of Tartar.	495	93·1	Present.	.....	...	.....	.....	.....		57123	Genuine Com.
Labelled "Forest City Mills" pure Cream of Tartar. Warranted strictly pure.	495	93·1	"	.....	.....	.....	.....	.....		57124	"
Labelled "Tartan Brand Cream of Tartar guaranteed absolutely pure.	495	93·1	"	.....	.....	.. .	...	.....		57125	"
Labelled Todhunter's pure select Cream of Tartar.	525	98·7	.....	.....	.....	.....	.....	....		57126	Genuine B.P.
Labelled "McLaren's Invincible" ground Cream of Tartar.	495	93	Present.	.....	.....	.....	.. ...	.. ...		57127	Genuine Com.
Labelled "Alliance Brand purest quality.	495	93·1	"	.....	.....	....	. . ..	.....		57128	"
Labelled 2oz. full wgt. Dalley's pure Cream of Tartar.	500	94	"	....	.....	.....	.. .	.....		57129	"
Labelled "Young's improved" pure Cream of Tartar. Young, Windfield Ltd., Hamilton, Ont.	480	90·2	"	... .	.....	.....	.....	.....		57130	"
JNO. TALBOT, INSPECTOR.											
Labelled Gillet's ground Cream of Tartar chemically pure.	520	98	.....	.... .	.....	.....	.....	.....		47947	Genuine B.P.
Labelled Gorman's pure ground Cream of Tartar.	500	94	Present.	.....	.....	.....	.... .	.....		47950	Genuine Com.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF WINDSOR				
1913.							
Mar. 3	Cream of Tartar.	47953	J. D. Stark, Chatham, Ont...	3 pkgs	30	E. W. Gillet Co. Toronto.	....
" 4	"	47955	H. A. Andrew, Chatham, Ont	3 "	30	Gorman Eckert Co., London.	.. ..
" 5	"	47970	Wm. Burnie, Windsor, Ont..	3 "	30	"	.....
" 5	"	47974	A. St. Denis, " Ont..	3 "	30	E. W. Gillet Co. Toronto.	....
" 6	"	47979	Laing & Moore, Essex.....	3 "	30	Gorman Eckert Co., London, Ont.	.....
" 6	"	47983	J. R. Miller, Essex.....	3 "	30	"	....
" 6	"	47986	A. H. Scarff, Essex.....	3 "	30	E. W. Gillet Co. Toronto.	.....
			DISTRICT OF MANITOBA—				
Feb. 24	Cream of Tartar.	45819	Blue Ribbon Ltd., Winnipeg.	¾ lb...	24	Vendors.....	... .
" 24	"	45820	Campbell Bros. & Wilson, Winnipeg.	¾ " ..	Nil.	"	....
" 25	"	45821	The Dyson Co., Winnipeg ..	¾ " ..	"	"	....
" 25	"	45822	The White Star Mfg. Co., Winnipeg.	3 tins.	50	"	....
" 26	"	45823	The Gold Standard Mfg. Co., Winnipeg.	3 " ..	Nil	"	..... .
Mar. 4	"	45824	S. Elliott & Co., Main St. N., Winnipeg.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.	.....
" 4	"	45825	D. Campbell, Main St. N., Winnipeg.	3 " ..	30	Todhunter, Mitchell Co., Toronto.	....
" 5	"	45826	J. Paterson, Main St. N., Winnipeg.	3 " ..	30	Campbell Bros. & Wilson, Winnipeg.	....
" 11	"	45827	J. T. Acheson & Son, Morden.	3 " ..	75	E. W. Gillett Co., Toronto.	.. ..
" 13	"	45828	J. B. Coyle, Winnipeg.	3 " ..	30	" ..	... .

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Results of Analysis.

Inspector's Report. (Is not an expression of Opinion).	Acidity CC. N. per 100 grams.	Bitartrate of potash expressed as weight	Lime (CaO).	Phosphates.	Sulphates.	Starch.	Alum (Al_2O_3).	Free Tartaric Acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst	
Concluded.											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
Labelled Gillett's ground Cream of Tartar chemically pure.	525	98·7	.....	....	....	.....	.....	....	47953	Genuine	B. P.
Labelled Gorman's pure ground Cream of Tartar.	500	94	Present.	....	.....	.. .	.....	.....	47955	Genuine	Com.
" .	510	96	" .	. .	.....	.. .	.. ..	.....	47970	"	
Labelled Gillett's ground Cream of Tartar chemically pure.	520	98	.....	...	.....	.....	.....	..	47974	Genuine	B. P.
Labelled Gorman's pure ground Cream of Tartar.	500	95	....	.. ..	.....	.....	.....	.. ..	47979	Genuine	Com.
" .	515	97	Present.	....	...	....	.....	....	47983	Genuine	B. P.
Labelled Gillett's ground Cream of Tartar guaranteed chemically pure.	520	98	.....	.....	... ...	.....	..	....	47986	"	

A. C. LARIVIÈRE, INSPECTOR.

Blue Ribbon Brand.	510	96	.....	....	. .	.....	.	. .	45819	Genuine.	Com.
"Royal Shield" . ..	475	90	Present.		....	. .	.	. .	45820	"	"
Dyson Red Cross....	495	93	"	..	....	.....	..	....	45821	"	"
"White Star".....	505	95	"	.....	.....	.....	. .	.....	45822	"	"
"Gold Standard" . .	515	97·2	....	....	..	. .	.	. .	45823	"	B. P.
.....	520	98	.....	.	....	.....	.	.	45824	"	"
... .	500	94	Present.	.....	..	.	.....	.	45825	"	Com.
"Royal Shield"...	485	91·3	"	.....	..	.	.	...	45826	"	"
... .	520	98	.....	....	.. ..	....	.	....	45827	"	B. P.
. ...	520	98	.....	....	..	....	....	..	45828	"	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF ROCKY MOUNTAINS—				
1913.							
Mar. 4	Cream of Tartar.	49836	Star Grocery, Nelson, B.C.	3 pkgs	45	E.W. GillettCo., Toronto.	
" 4	"	49839	Christie & Benson, Nelson, B.C.	3 tins.	40	Empress Mfg. Co., Vancouver, B.C.	
" 7	"	49845	Morrin, Thompson Co, Phoenix, B.C.	3 pkgs	45	E.W. GillettCo., Toronto.	
" 13	"	49849	E. T. Rahl, Hosmer, B.C.	3 "	30	White Star Mfg. Co., Winnipeg.	
" 13	"	49856	M. Lund, Hosmer, B.C.	3 "	40	Blue Ribbon Ltd., Winnipeg	
" 17	"	49858	A. Hobson, Revelstoke, B.C.	3 tins.	75	Kelly, Douglas & Co., Vancouver, B.C.	
" 17	"	49859	C. B. Hume & Co., Revelstoke, B.C.	3 "	45	Empress Mfg. Co., Vancouver, B.C.	
" 26	"	49891	W. R. Braden, Rossland, B.C.	3 "	75	Kelly, Douglas Co., Vancouver, B.C.	
" 26	"	49892	Agnew & Co., "	3 pkgs	45	E.W. GillettCo., Toronto.	
" 26	"	49893	Hunter Bros., "	3 tins.	75	Empress Mfg. Co., Vancouver, B.C.	
			DISTRICT OF VANCOUVER—				
Mar. 11	Cream of Tartar.	53456	Edgett & Co., Vancouver, B.C.	3 pkgs	30	Kelly, Douglas & Co., Vancouver, B.C.	
" 11	"	53457	Nat. Drug & Chem. Co., Vancouver, B.C.	3 "	30	Vendors	
" 11	"	53458	Gruchy & Carlaw, Vancouver, B.C.	3 "	30	Pure Gold Mfg. Co., Toronto.	
			DISTRICT OF VICTORIA—				
Mar. 14	Cream of Tartar.	53545	Acton Bros., 1317 Douglas Ave., Victoria, B.C.	1½ lb.	75	E.W. GillettCo., Ltd., Toronto.	
" 18	"	53553	Copas & Young, 631 Fort St., Victoria, B.C.	1½ "	60	Pure Gold Mfg. Co., Ltd., Toronto.	
" 18	"	53555	James Adams, 1309 Gladstone Ave., Victoria, B.C.	¾ "	30	Wm. Braid & Co., Vancouver, B.C.	
" 19	"	53560	H. O. Kirkham, 741 Fort St., Victoria, B.C.	¾ "	30	Kelly, Douglas & Co., Ltd., Vancouver, B.C.	
" 19	"	53562	W. A. Jamieson Coffee Co., 75 Broughton St., Victoria, B.C.	¾ "	45	Thompson & Co., Montreal.	
" 19	"	53564	Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B.C.	1½ "	30	"	

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Acidity CC. N. per 100 grams.	Bitartrate of potash expressed as weight.	Lime (CaO).	Phosphates.	Sulphates.	Starch.	Alum (Al_2O_3).	Free Tartaric Acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
THOS. PARKER, INSPECTOR.											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
....	520	98	....		...	... .	.. ..	.....	49836	Genuine.	B.P.
....	520	98	.. ..		. ..	.....	.....	.....	49839	"	"
....	520	98	....		.....	....	.....	...	49845	"	"
....	500	94	Present.		..	...	. ..	. ...	49849	"	Com.
....	500	94	....		.....	... .	.....	.....	49856	"	"
.....	490	92	Present.		.....	.. ..	.....	.....	49858	"	"
....	520	98·7	.....	.....	.....	. ..	.. ..	.....	49859	"	B.P.
..... .	495	93	Present.		.....	...	....	.	49891	"	Com.
....	525	98	....		.....	.....	...	.....	49892	"	B.P.
.....	520	98	Present.		....	.. .	.....	.....	49893	"	"
J. F. POWER, INSPECTOR.											
"Nabob" Brand....	490	92·1	Present.		.....	.....	.....	.....	53456	Genuine.	Com.
....	520	99·7	....		.....	.....	. . .	.....	53457	"	B.P.
... .	525	98·7	....		.....	... .	. ..	.. ...	53458	"	"
D. O'SULLIVAN, INSPECTOR.											
Gillett's	530	99·6	....		.....	....	.....	.....	53545	Genuine.	B.P.
Pure Gold	525	98·7	Present		.....	.....	....	.....	53553	"	"
.....	495	93·1	"		.....	... ..	.....	.....	53555	"	Com.
Nabob	490	92	"		.....	.....	.....	.....	53560	"	"
.....	495	93·1	"		.....	.....	.....	.....	53562	"	"
....	495	93·1	"		... ...	... ..	.. ...	.....	53564	"	"

APPENDIX G.

BULLETIN No. 264—FERTILIZER, 1913.

OTTAWA, 21st October, 1913.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report upon 431 samples of Fertilizers obtained by our inspectors during March and April of this year.

The analytical work upon these has been completed for some months past; and delay in presenting this Report is due to protracted correspondence with dealers and others, in an attempt to clear up difficulties of identification, arising mainly through carelessness on the part of dealers, but in some cases due to mistakes made by our own inspectors. I cannot say that all difficulties referred to have been satisfactorily solved, and from this fact arises some degree of uncertainty in pronouncing as to the results of analysis.

So far as information is available to me, the following synopsis represents these results:—

Samples meeting their guarantee	358
" nearly meeting their guarantee	27
" not registered, or not sufficiently identified	25
" showing deficiency	21
Total	431

When one considers the simplicity of our Fertilizers Act and the clearness with which its requirements are stated in the Act itself, together with the fact that it has now been three years in operation, it seems very strange that any difficulty should be found in carrying it quite definitely into effect. It may be well to state, in plain terms, the requirements of the Act and the conditions under which alone it can be made effective.

The Act is primarily intended to protect the purchaser of fertilizers by assuring him of the actual values of what he buys.

With this object in view we endeavour, through our inspectors, to obtain samples of all brands of fertilizers found on Canadian markets. The sample is always taken by our inspector in the presence of the vendor, whose privilege it is to see that our inspector obtains a representative sample of the fertilizer in question. Our inspector is properly instructed in the matter; but he requires to have the vendor present; and the vendor is either the manufacturer, or is an agent of the manufacturer; and as such is interested in seeing that a truly representative sample is taken.

It must not be forgotten that the results of analysis apply not to the whole output of the manufacture, but to that portion of the goods which comes into possession of the Analyst. Yet, upon the result of analysis of this portion, must be based the action of the Department; and the importance of securing a truly representative sample is therefore evident.

It is the duty of the dealer to see that he offers only a properly registered and tagged (or otherwise labelled) fertilizer for sale.

It is his duty to see that the tag is legible, and that it belongs to the very package to which it is attached.

The registration number constitutes a legal identification of the brand; and the manufacturer is responsible, inasmuch as he must furnish an article having the guaranteed values registered at the Department in connection with the number on the tag.

Any question of properly applying tags, labels or registration numbers to particular packages, must be arranged between the dealer and the manufacturer.

Our inspector's duty is to see that the package or packages from which he takes his samples, are tagged or labelled, as required by law; or, if not tagged or labelled, to report the fact to the Department. In this case, the dealer is liable to a fine of Fifty Dollars. It is further the duty of our inspectors to secure a representative sample of the goods; to divide this into three portions; to seal each portion, and to leave one of the three portions with the dealer. If he so desires, the dealer may affix his own seal to one of the three portions, in addition to the inspector's seal. The other two portions are sent to these laboratories.

While the Department recognizes that fertilizer analyses are made primarily in the interest of the user of the fertilizer, it is not forgetful of the commercial importance attaching to the publication of our results, as affectiug the manufacturer and the vendor.

Identification of the brand depends upon the vendor and the inspector; the former being responsible for the correctness of the information furnished to our inspector; the latter for accurate transmission of such information to the Department.

The portion received at the laboratories is carefully sampled by an experienced man, and about eight ounces of the material bottled for the use of the analyst. When the whole series has been reported on, those samples which fail to meet guarantees are set apart.

They are transferred to new bottles (to prevent the possibility of recognition of the container) and marked with numbers, the key to which is in possession of the Chief Analyst only. They are then submitted to a second analysis, and it is only when the results of this check analysis corroborate the first results, that these are established as final.

No amount of care on the part of our officers will secure justice to a manufacturer, whose agent (the dealer) is careless. The manufacturer is required to tag or label every package of his goods.

These come into the possession of the dealer, who perhaps handles many other brands.

Tags are torn off, or labels are rendered illegible. The dealer is too often careless in re-tagging. We have many times found a sample of a complete fertilizer sold with a number which belonged to a slag, or *vice versa,* and again and again we find discrepancies between the claim corresponding to the number on the tag, and the actual results of analysis, so great as to make it certain that there is something wrong in identification of the brand. In strict law, we are justified in publishing the results in these cases, and in holding the dealer, as agent, entirely responsible for the failure of the sample, as sold by him, to meet the claim on the tag it bears.

Unfortunately, however, such action works injury to the manufacturer of the brand, who may be perfectly innocent; and involves the reputation of a manufacturer, who is in no way responsible for the particular brand in question.

I am convinced that dealers in fertilizers must be made to feel the responsibility they have both to the consumer and to the manufacturer whose goods they handle. This may be best done by strictly enforcing the penal clauses of the Act against them, in all cases in which it is clear that carelessness has caused them to blunder as above described.

Fifteen samples of this collection which were sold without any registration number, have been supplied with what are assumed to be the numbers belonging to them, as inferred from information given by vendors. In all of these cases the assumed registration numbers are placed in brackets to distinguish them from registration numbers furnished by our inspectors. In twelve of these cases, the results of analysis meet the terms of the assumed guarantee. In the remaining three cases, there is, of course, no basis on which to found any charge against the manufacturer. The identification of the brand is an assumption.

It is not fair to the manufacturer who had secured a registration number for his different brands, to assume the identity of an untagged fertilizer sample with any one of these; and this practice will be discontinued in future. The only just way of

dealing with fertilizers offered for sale without tags, is to impose the maximum penalty fixed by Section 15 of the Act (Fifty Dollars) on the dealer.

I would respectfully advise publication of this report as Bulletin No. 264.

I have the honour to be, sir,
Your Obedient Servant,

A. McGILL,
Chief Analyst.

Date of Collection	Designation.	No. of Sample	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
						DISTRICT OF NOVA SCOTIA—		
1913.								
Mar. 20	Potato and Vegetable Phosphate	46966	F. W. Dimock, Windsor, N.S.	3 lbs.	Nil.	Bowker Co., Boston, Mass.	Mfrs	
" 20	Stockbridge Special Complete Manure for Potatoes and Vegetables.	46967	"	3 "	"	"	"	
" 20	Bowkers Square Brand Bone and Potash.	46968	"	3 "	"	"	"	
" 20	Scottish Potato Manure.	46969	C. P. Blanchard, Truro, N.S.	3 "	"	A. Cross & Son, Glasgow, Scot.		
" 20	'A' Quality Basic Slag.	46970	"	3 "	"	Cross Fert. Co., Sydney, N.S.	"	
" 20	Montreal Special Manure.	46971	H. H. McNutt, Truro, N.S.	3 "	"	Montreal Abattoirs Ltd.	"	
" 20	Gilt Edge Potato and Tobacco Manure.	46972	"	3 "	"	"	"	
" 20	Fine Bone	46973	"	3 "	"	"	"	No number on bag or tag.
April. 15	Fertilizer	46974	Halifax Seed Co., Halifax, N.S.	3 "	"	Lowell Fert. Co., Windsor, N.S.	Colonial Fert. Co., Windsor, N.S.	
" 15	Empress Brand	46975	"	3 "	"	"	"	
" 15	Cereal Braud	46976	"	3 "	"	"	"	
" 15	Ground Bone	46977	"	3 "	"	"	"	
" 23	1-8-5 Brand	46978	Amherst Trading Co., Amherst, N.S.	3 "	"	Dom. Fert. St. Stephen, N.B	Mfrs	
" 23	2-8 10 Brand	46979	"	3 "	"	"	"	
" 23	Basic Slag	46980	"	3 "	"	Anglo Continental Guano Works, Londres, Eng.	"	
23	Potato Manure	46981	R. A. Beckwith, Amherst, N.S.	3 "	"	A. Cross & Sons, Glasgow, Scot.	"	
" 25	Muriate of Potash.	46982	F. Wescott, Gaspereany, N.S.	3 "	"	German Kali Works, New York	Unknown	

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.												
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
92	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	2·0	.....	46966	
	As found...	.....	1·90	5·80	2·53	1·30	9·63	8·33	2·14	.....	.....	Meets guarantee.
88	As guaranteed	3·29	4·0	4·0	2·0	1·0	7 0	6·0	10·0	.....	46967	
	As found ...	. .	3·5	3·45	2·25	1·48	7·18	5·70	9·50	.....	.....	"
95	As guaranteed	1·65	2·0	4·0	2·0	1·0	7·0	6·0	2·0	.....	46968	
	As found ..	.....	2 22	3·70	2·68	1 67	8·05	6 38	2·04	.. .	. ...	"
515	As guaranteed	2 47	3·0	7·0	1·0	1·9	9·0	8·0	3·5	.....	46969	Meets guarantee.
	As found.....	.....	3 05	2·52	6·97	2 01	11 50	9·49	3·63	....	....	essentially, the available phosphoric acid being up to claim.
557	As guaranteed	.....	....	.....	12·8	.....	.....	.....	.....	.....	46970	
	As found.....	.....	.....	.....	13·35	0·88	14·23	13·35	.....	90·9	.....	Meets guarantee.
556	As guaranteed	.... .	1·0	.....	.....	... ..	.....	8·0	5·0	... ..	46971	
	As found.....	.....	1·5	...	10·24	1·96	12 20	10·24	4·56	.....	.....	"
555	As guaranteed	...	3·0	....	.....	.....	....	7·0	10·0	... .	46972	*Very low in potash, deficiency 8·5 p.c.
	As found....	.....	3·20	....	11·23	2·10	13·33	11·23	1·54	.....	.....	
....	.....	....	.....	.....	.....	.....	.....	.....	....	....	46973	Not identified, and apparently not registered.
....	As found.....	....	4 39	.....	16·34	8·77	25·08	16·31	.....	.....	.....	
803	As guaranteed	1·64	2·0	4·0	4·0	1·0	9·0	8·0	3·0	.....	46974	
	As found.....	.... .	2 10	5·03	3·41	0·94	9·38	8·44	2·94	.....	.....	Meets guarantee.
802	As guaranteed	1·24	1·5	3·0	4·0	1·0	8·0	7·0	2·0	... .	46975	
	As found.....	.....:	1·90	4·81	2·56	1·13	8·50	7·37	2·61	.....	.....	"
799	As guaranteed	0·82	1·0	4·0	3 0	1 0	8·0	7·0	1·0	.....	46976	
	As found. ...	.....	1 10	4·28	3·51	1 06	8·85	7·79	1·38	.....	.....	"
463	As guaranteed	2·46	3·0	. ...	... .	.....	23 0	.....	.....	.....	46977	
	As found ...	....	3·64	. .	16·90	6·65	23·55	16·90	.....	....	.....	"
492	As guaranteed	0·80	1·0	6·0	2·0	1·0	9·0	8·0	5·0	.....	46978	
	As found.....	.....	1·10	3·55	4·17	0·88	8·60	7·72	5·74	.....	...	"
489	As guaranteed	1·6	2·0	6·0	2 0	1·0	9·0	8·0	10 0	.... .	46979	
	As found....	. ....	1·75	6 73	1·89	0·66	9·28	8·62	8·51	....	.....	Low in potash.
106	As guaranteed	. ...	....	.....	11·2	.....	14·0	.....	.....	80·0	46980	
	As found... .	.....	.....	. ...	11 83	1·22	13·05	11·23	. .	85·2	.....	Meets guarantee.
339	As guaranteed	1·65	2·0	.....	. . .	. . .	9·0	8·0	2 0	...	46981	
	As found.....		2·43	.....	8·16	3·54	11·70	8·16	2·55	. ....	.....	"
691	As guaranteed	.. ..	.....	... .	.....	.	..	....	48·0	....	46982	
	As found.....	.....	.... .	....	.....	.... .	....	.....	50·89	....	....	"

* Manufacturers claims mistaken indentification in the brand; should be 552 when the finding would be O.K.

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF NOVA-SCOTIA—					
1913.								
April 25	Superphosphate with Potash.	46983	Burgess & Co., Wolfville, N.S.	3 lbs.	Nil.	Bowker Co., Boston, Mass.	Mfrs.	
" 25	6% Brand.	46984	" "	3 "	"	"	"	
" 28	Pidgeons' Ground Bone.	46985	Colonial Fert. Co., Windsor, N.S.	3 "	"	Vendors		
" 28	Basic Slag	46986	" "	3 "	"	Staachman Co., Germany.	Mfrs.	
" 28	Essex Potato Grower.	46987	" "	3 "	"	Vendors		
" 28	Colonial Potato Grower.	46988	" "	3 "	"	"		
" 28	Colonial Acid Phosphate.	46989	" "	3 "	"	"		
" 28	Essex Complete Manure.	46990	" "	3 "	"	"		
" 28	Bone and Phosphate.	46991	F. H. Manning, Falmouth, N.S.	3 "	"	Montreal abbatoirs, Montréal.	Mfrs.	No number on bag or tag.
" 29	Bone and Potash.	46992	A. L. Melvin & Co., Halifax, N.S.	3 "	"	Nova Scotia Fert. Co., Halifax, N.S.	"	
" 29	10% Potato Phosphate.	46993	" "	3 "	"	"	"	
" 29	Bone Meal	46994	" "	3 "	"	"	"	
" 29	Potato Phosphate.	46995	" "	3 "	"	"	"	
" 29	Ceres Brand	46996	" "	3 "	"	"	"	
" 29	Imperial Superphosphate.	46997	E. D. Smith, Dartmouth, N.S.	3 "	"	Prov. Chem. Co St. John, N.B		
" 29	Potato Phosphate.	46998	"	3 "	"	"		
" 29	Potato Manure.	46999	"	3 "	"	"		
May 6	4-8-4 Potato Fertilizer.	47000	United Fruit Co., Berwick, N.S.	3 "	"	A. Cross & Sons, Glasgow Scot.		
" 7	Slag.	54101	Nova Scotia Fert. Co., Halifax, N.S.	3 "	"	Staachman & Co., Germany.		

SESSIONAL PAPER No. 14

ERTILIZERS AS SOLD.

Concluded.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total; including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total; Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
99	As guaranteed	.....	.....	6·0	4·0	1·0	11·0	10·0	2·0	.....	46983	
	As found.....	.....	.....	7·0	2·66	0·94	10 60	9·66	2·49	.....	...	Meets guarantee.
96	As guaranteed	0·82	1·0	4·0	2·0	1·0	7·0	6·0	6·0	....	46984	
	As found . . .	....	0·90	5·19	1·86	0·50	7·55	7·05	7·40	.....	..	"
786	As guaranteed	2·47	3 00	....	.....	.....	20·00	.....	.....	.....	46985	
	As found.....	.....	3·78	....	13·86	8·72	22·58	13·86	.....	.....	...	"
861	As guaranteed	.....	.....	.....	.....	.....	17·0	.....	.....	.....	46986	
	As found.....	.....	.....	.....	14·78	3·05	17·83	14·78	.....	86·3	.....	"
790	As guaranteed	2·46	3 0	3 0	3·0	1·0	7·0	6·0	10·0	.....	46987	
	As found.....	.....	2·90	4 55	1·35	0·65	6·55	5·90	10·66	....	.....	"
765	As guaranteed	3·28	4·0	3·0	3·0	1 0	7·0	6·0	10·0	.....	46988	
	As found.....	... ..	4·00	4·80	2·09	0 94	7·83	6·89	9·19	.....	.....	* "
859	As guaranteed	.....	.....	.....	...	.....	15·0	14·0	.....	.....	46989	
	As found	.. ..	.....	.....	15·42	1·38	16·80	15·42	... ..	.....	...	"
788	As guaranteed	3·28	4·0	3·0	3·0	1·0	7·0	6·0	10·0	. ..	46990	
	As found.....	.....	3·78	4·45	2·10	0·58	7·13	6·55	10·08	.....	....	
....	....	.. .	.. .	.....	...	.....	.....	.....	.... .	.....	46991	† Not indentified and apparently not registered.
....	As found.....	... .	.....	.....	6·95	3·78	10·73	6·95	26 20	.....	.... .	
465	As guaranteed	.....	2·0	.....	6·0	2·0	8·0	6·0	2·0	....	46992	
	As found.....	....	2·80	.....	8·16	1·14	9·30	8·16	4·68	.....	....	Meets guarantee.
41	As guaranteed	.....	2·5	.....	.....	2·0	8·0	6·0	10·0	. . .	46993	Deficient in phosphates, but excess of potash fully compensates in value.
		.....	2·79	.....	4·05	0·61	4·66	4·05	14·62	.....	.. ...	
44	As guaranteed	.....	3·00	.....	.....	.....	23·0	..	.....	.....	46994	Low in total phosphoric acid.
	As found....	.. ...	3·87	.....	12·88	8·15	21·03	12·88	....	... ..	....	
38	As guaranteed	.....	2 0	... ..	.....	2·0	9·0	7·0	4·0	.. ...	46995	
	As found.....	.....	2·72	.....	7·20	1·35	8·55	7·20	5·29	.....	.. ..	Meets guarantee.
37	As guaranteed	... ..	2·0	.....	.....	2·0	9·0	7·0	2 0	.....	46996	
	As found....	.....	2·96	.....	7·70	1·30	9·00	7·70	4 74	.....	.... .	"
69	As guaranteed	.....	3·0	. ....	... ..	.	10·0	... .	1·5	....	46997	
	As found.....	.....	3·00	.....	....	.....	11·68	.....	1·89	.....	.....	"
63	As guaranteed	.....	2·5	.....	... .	.....	8·0	.....	6·0	....	46998	
	As found. ...	.....	2·70	.....	.....	.....	9·03	.....	5·97	.....	...	"
70	As guaranteed	.....	2·0	.....	.. ..	.....	7·0	....	4·0	.....	46999	
	As found	....	2 00	.....	.....	.....	8·85	.....	3·92	.....	.....	"
689	As guaranteed	3·29	4·0	7·0	1·0	1·0	9·0	8·0	4·0	.....	47000	
	As found.....	.....	4 10	5·58	4·00	1·77	11·35	9·58	5·24	.....	.....	"
47	As guaranteed	.....	.. ...	.. ..	.....	.	14 0	12·0	.....	. ..	54101	
	As found.....	.....	.....	.....	13·76	0·69	14·45	13·76	.....	84 9	....	

* Samples, assumed to be duplicates, give respectively 9·81 and 8·57 potash, mean value, 9·19

† Vendor claims was not for sale but for own use.

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF PRINCE EDWARD ISLAND—					
1913.								
April 16	Superphosphate	46424	Auld Bros., Charlottetown, P.E.I.	3 lbs	Nil.	Thos. Vickers & Son, Manchester, Eng	.....	.....
" 16	Nitrate of Soda.	46425	* "	3 "	"	The Am. Agr. Chem. Co., Weymouth, Mass.	.....	.....
" 16	Sulphate of Potash.	46426	"	3 "	"	German Kali Works., Leopoldshall, Strassfurt.	.....	.....
" 16	Muriate of Potash.	46427	"	3 "	"	"	.....	.....
" 16	Swans Thomas Phosphate.	46428	"	3 "	"	Swan Bros. Wks., Wigan, Eng.	.....	.....
" 16	Sure Growth....	46429	"	3 "	"	Montreal Abattoirs Ltd., Montreal.	.....	.....
" 16	Montreal Special Potato Manure.	46430	"	3 "	"	"	.....	.....
" 17	Corn and Cereal Special.	46431	"	3 "	"	"	.....	.....
" 19	Early Fruit and Vegetable Grower.	46432	"	3 "	"	"	.....	.....
" 19	Gilt Edge Potato and Tobacco Manure.	46433	Auld Bros., Charlottetown, P.E.I.	3 "	"	Montreal Abattoirs Ltd., Montreal.	.....	.....
May 7	Nitrate of Soda.	46434	J. H. Gill, Charlottetown, P.E.I.	3 "	"	Alex. Cross & Sons, Ltd., Glasgow.	.....	.....
" 7	Superphosphate.	46435	" " ..	3 "	"	" ..	.....	.....
" 10	Muriate of Potash.	46436	" " ..	3 "	"	German Kali Works, Leopoldshall, Strassfort, Germany.	.....	.....
			DISTRICT OF NEW BRUNSWICK—					
Mar. 17	Bowker's 6 %...	50301	D. J. Seely & Son, St. John, N.B.	3 jars.	10	Bowker Fert. Co., Boston, Mass.	.....	.....
" 17	Stockbridge complete Manure for Potatoes and Vegetables.	50302	" " ..	3 " .	10	" ..	.....	.....

* Warehouse men only.

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total; including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total; Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
WM. A. WEEKS, INSPECTOR.												
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
324	As guaranteed	...	....	.....	... .	.....	....	16·0	....	. ....	46424	
	As found.....	.....	....	17·50	0·45	0·53	18·50	17·97	... ..	.....	.....	Meets guarantee.
179	As guaranteed	15·0	18·23	.....	.....	.....	.....	.....	... ..	.....	46425	
	As found. ...	...	18·20	.. .	.....	.....	.....	.....	.....	. .	.....	"
306	As guaranteed	.....	.... .	.. ...	.....	.....	.....	.....	48·0	.....	46426	
	As found.....	.....	.....	.....	.....	.....	.....	.....	47·80	.....	.....	"
305	As guaranteed	.. ..	.....	.. ..	.....	.....	.....	.. ..	50·0	. ....	46427	
	As found.....	.....	.....	.....	...	.....	.....	.....	48·96	....	.....	"
323	As guaranteed	.. .	....	.. ...	11·20	2·80	14·0	11·20	. ...	.....	46428	
	As found.....	.....	...	....	11·53	3·25	14·78	11·53	....	86·0	... .	"
551	As guaranteed	.. ..	1·0	.....	.....	.....	.....	8·0	1·0	. ...	46429	
	As found. ...	.....	2·20	.. .	8·31	1·49	9·80	8·31	2·12	.....	....	"
556	As guaranteed	.....	1·0	.....	....	....	....	8·0	1·0	. .	46430	Much above guarantee in potash.
	As found.....	.....	1·20	.....	8·65	1·70	10·35	8 65	5·87	.....	.....	
552	As guaranteed	...	2·0	.. .	.....	.....	.....	8·0	2·0	....	46431	
	As found	.....	2·00	.....	8·81	3·34	12·15	8·81	2·59	.. ...	... ..	Meets guarantee.
553	As guaranteed	.....	4·0	.....	.....	.....	.....	6·0	4·0	.....	46432	
	As found.....	.....	4·30	.....	8·14	3·16	11·30	8·14	5·57	.....	.....	"
555	As guaranteed	.....	3·0	.....	....	.....	.....	7·0	10·0	. ..	46433	* Low in potash.
	As found....	.. ...	3·10	.....	9·53	3·57	13·10	9 53	6·32	.....		
174	As guaranteed	15·5	18·8	.....	.....	.....	. ..	.....	.....	.....	46434	
	As found.....	....	18·30	.....	.. ...	.....	....	.....	....	.....	.....	Meets guarantee.
327	As guaranteed	.....	.....	16·0	.....	...	.....	.....	.....	.....	46435	
	As found....	... ..	....	16 86	.....	1·24	18·10	16·86	... ..	.....	.....	"
691	As guaranteed	....	....	.....	.....	....	....	.....	48·0	....	46436	
	As found.....	. ...	.....	..	.....	.....	....	....	48·38	. ..	.....	"
J. C. FERGUSON, INSPECTOR.												
96	As guaranteed	0·82	1·0	4·0	2·0	1·0	7·0	6·0	6·0	.....	50301	
	As found. ...	.....	1·10	4·00	3·48	1·02	8·50	7·48	5·22	.....	.....	Meets guarantee.
	As guaranteed	3·29	4·0	4·0	2·0	1·0	7·0	6·0	10·0	.... .	50302	
88	As found.....	.....	3·20	4 50	2·54	1·71	8·75	7·04	8·92	.....	.....	Nearly meets guarantee.

* Manufacturers claim as accidental.

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF NEW BRUNSWICK—					
1913.								
Mar. 17	Sure Crop	50303	D. J. Seely & Son, St. John, N.B.	3 jars.	10	Bowker Fert Co., Boston, Mass.		
" 17	Farm and Garden.	50304	" "	3 "	10	"		
" 17	Square Brand	50305	" "	3 "	10	"		
" 17	Bowker's Potato and Vegetable Phosphate.	50306	" "	3 "	10	"		
" 22	10% Complete Aroostook.	50307	The Prov. Chem. Fert. Co., Ltd., St. John, N.B.	3 "	10	Vendors		
" 22	Complete Potato Grower.	50308	" "	3 "	10	"		
" 22	Special Potato Phosphate.	50309	" "	3 "	10	"		
" 22	Potato Manure.	50310	" "	3 "	10	"		
" 22	Imperial Superphosphate.	50311	The Prov. Chem. Fert. Co., Ltd., St. John, N.B.	3 "	10	Vendors		
" 22	Blood Bone and Potash.	50312	"	3 "	10	"		
" 22	Victor Guano	50313	"	3 "	10	"		
Apr. 10	4-6-10	50314	Dom. Fert. Co., Ltd., St. Stephen, N.B.	3 "	10	"		
" 10	3-6-10	50315	"	3 "	10	"		
" 10	2-8-10	50316	"	3 "	10	"		
" 10	2-9-5	50317	"	3 "	10	"		
" 10	Bradley's X.L.	50318	Hill Bros., St. Stephen, N.B.	3 "	10	Am. Agr. Chem. Co., Boston, Mass.		
" 10	Bradley's Potato Manure.	50319	"	3 "	10	"		
" 15	10 p.c. Potato Phosphate.	50320	Byron Brewer, Fredericton, N.B.	3 "	10	Nova Scotia Fert. Co., Halifax, N.S.		
" 15	Potato Phosphate.	50321	"	3 "	10	"		
" 15	Special Potato Phosphate.	50322	"	3 "	10	"		
" 15	High Grade Potato Phosphate	50323	"	3 "	10	"		
" 16	Harab	50324	Benn & Turney, Woodstock, N.B.	3 "	Nil.	The Harris Abattoir Co., Ltd., Toronto		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total; including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total; Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Continued.												
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
773	As guaranteed.	0·82	1 0	7 0	2·0	1·0	10·0	9·0	2 0	.....	50303	
	As found.....	.....	1·10	6·65	2·57	1·16	10·38	9·22	2 69	.....	..	Meets guarantee.
94	As guaranteed.	1·65	2·0	6·0	2·0	1·0	9·0	8·0	2 0	..	50304	
	As found. . .	.....	2·80	5 75	3·24	1·24	10·23	8·99	2·42	.....	.....	"
95	As guaranteed.	1·65	2·0	4·0	2·0	1·0	7·0	6·0	2·0	.....	50305	
	As found....	. ...	2·27	4·51	2·96	0·98	8·45	7·47	2·49	.....	... ..	"
92	As guaranteed.	1·65	2 0	6·0	2 0	1·0	9·0	8·0	2·0	....	50306	
	As found.....	.....	1·97	5·53	2·46	1·64	9·63	7·99	2·21	.....	.... .	"
65	As guaranteed.	.....	4·0	....	.....	....	8·0	.....	10·0	.....	50307	
	As found.....	.....	3·75	....	.....	....	7·55	...	11·00	.....	.. .	"
64	As guaranteed.	.....	3·0	.....	..	.... .	6·0	.. ..	10·0	.....	50308	
	As found.....	.....	3·20	....	... ..	....	5·60	.....	10·72	.....	. ....	"
63	As guaranteed.	.....	2·5	.....	.....	. . .	8·0	.....	6·0	.....	50309	
	As found.....	.....	2·50	.....	.....	....	7·50	....	6·23	...	.....	"
70	As guaranteed.	...	2·0	.....	.....	.....	7·0	.....	4·0	. .	50310	
	As found.....	.....	2 00	.....	.....	.....	7·25	... ..	3 88	....	.....	"
69	As guaranteed.	.....	3·0	.....	. . . ..		10·0	. ...	1·5	.....	50311	
	As found.....	.....	3·00	.....	...	....	9 88	....	2 12	.. ..	.....	"
71	As guaranteed.	.....	2 0	.....	.....	.....	7·0	.....	4·0	.. ...	50312	
	As found.....	.....	2 10	.....	....	... .	7·10	.....	4·34	.....	....	"
68	As guaranteed.	. ..	2·0	.....	.....	....	7·0	.....	2·5	.....	50313	
	As found.....	... ..	2·20	.....	..	..	6·90	...	2·12	.....	.....	"
487	As guaranteed.	3 3	4·0	4·0	2·0	1·0	7·0	6 0	10·0	.....	50314	
	As found.....	. . .	3·90	2·30	4·31	1·02	7·63	6·61	10·62	.....	.....	"
488	As guarauteed.	2·4	3·0	4·0	2·0	1·0	7·0	6·0	10·0	.....	50315	
	As found.....	.....	2·90	1·70	4·08	0·95	6·73	5·78	14·06	.....	....	"
489	As guaranteed.	1·6	2 0	6·0	2·0	1·0	9·0	8 0	10·0	.....	50316	
	As found . .	. .	2·00	7·13	1·29	0·91	9 33	8·42	10·16	. ..	.....	"
490	As guaranteed.	1·6	2·0	7·0	2·0	1·0	10·0	9 0	5·0	....	50317	
	As found.....	.....	2 25	3·43	5·45	1·32	10·20	8·88	4·96	.....	.....	"
2	As guaranteed.	2·06	2·5	6·0	2·0	1·0	9·0	8·0	1·5	.... .	50318	
	As found.....	.....	2·35	4 68	3 60	0·90	9 18	8·28	1 56	..	.... .	"
190	As guaranteed.	2·47	3·0	4·0	2·0	1 0	7·0	6·0	5·0	.....	50319	
	As found. ...	. ...	2·80	3 50	2·71	0·99	7·20	6·21	5·13	.....	..	"
41	As guaranteed.	.....	2·5	.....	.....	2·0	8·0	6·0	10·0	.....	50320	Meets guarantee value. Compensated.
	As found.....	.....	2 50	.. .	4 85	0·79	5·64	4·85	11·72	.....	.. .	
38	As guaranteed.	.....	2·0	.....	.....	2·0	9·0	7·0	4·0	.....	50321	
	As found. ..	.....	2·80	.....	6 55	1·09	7·67	6·58	4·54	. ....	.. .	Meets guarantee.
40	As guaranteed.	.....	2·5	.....	.. .	2·0	8·0	6·0	7·0	.....	50322	Low in phosphoric acid. Meets guarantee in value. Compensated.
	As found.....	.....	2·50	....	5·40	0·75	6·15	5·40	7·65	... ..	.....	
36	As guaranteed.	.. .	4·0	.. ..	.....	2·0	8·0	6·0	10·0	.....	50323	
	As found. ..	....	3·90	.....	5·93	1·17	7·10	5 93	11·74	.. ..	.....	Meets guarantee.
695	As guaranteed.	.....	4 0	.....	....	....	7·0	6·0	10 0	.....	50324	
	As found.....	.....	3·80	.....	7·56	1·04	8·60	7·56	11·12	. ...	.....	"

DISTRICT OF NEW

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
1913.								
April 18	3-6-10.....	50325	Porter Manzer Co., Woodstock, N.B.	3 jars.	Nil.	Int. Agr. Corporation, Buffalo Fert. Wks	.....	.....
" 18	Thomas Phosphate Powder.	50326	J. Warren Jamer, Andover, N.B.	3 "	10	H & E. Albert, London, Eng.	.....	.....
" 23	Bone Meal.....	59327	Mills Eveleigh Co., Ltd., Sussex, N.B.	3 jars.	10	Dom. Fert. Co., St Stephen, N.B.	.....	.....
" 23	Basic Slag, "A" Quality.	50328	"	3 "	10	The Cross Fert. Co., Ltd., Sydney, N.S.	.....	.....
" 23	2-8-2.....	50329	"	3 "	10	Dom. Fert. Co., St. Stephen, N.B.	.....	.....
" 23	Ground Bone...	50330	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	10	New England Fert. Co., Windsor, N.S.	.....	.....
" 23	Potato Fertilizer	50331	"	3 "	10	"	.....	.....
" 23	Corn and Grass..	50332	"	3 "	10	"	.....	.....
June 4	Basic Slag.....	50333	Walter K. Reade, Melrose, N.B.	3 "	Nil.	Glengarnock Phosphate W'ks, Glengarnock.	Woodford Allen, Upper Cape, N.B.	Stenciled on bag' 24% Sol. Phosphates.
" 4	Basic Slag.....	50334	"	3 "	"	.....	Rich. Joyce, Melrose, N.B.	.....
" 4	Basic Slag.....	50335	Job Fillmore, Port Elgin, N.B.	3 "	"	.....	Colonial Fertilizer Co., Windsor, N.S.	.....
" 5	Basic Slag.....	50336	Isaac Winslow Kaye, Little Shemogue, N.B.	3 "	"	The Cross Fert. Co., Ltd., Sydney, N.S.	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water	Phosphoric Acid per cent. Reverted or Citrate Soluble.	Phosphoric Acid per cent. Insoluble.	Phosphoric Acid per cent. Total.	Phosphoric Acid per cent. Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
BRUNSWICK—*Concluded.*		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
753	As guaranteed	2·46	3·0	4·0	2·0	1·0	7·0	6·0	10·0	.....	50325	
	As found.	. ..	2·60	1·35	4·76	0·97	7·08	6·11	10·03	....	.....	Meets guarantee.
1	As guaranteed	....	.....	...	12·0	.....	15·0	...	....	.....	50326	
	As found.....	.....	.....	....	14·88	1·02	15·90	14·88	... ..	86·6	. .	"
572	As guaranteed	2·46	3·0	. ..	...	... ..	22·0	...	.....	.....	50327	
	As found.....	.... .	3·37	.....	16·33	7·20	23·53	16·33	.....	.....	.....	"
557	As guaranteed	.....	.....	...	12·80	.....	....	.....	.....	.....	50328	
	As found.....	.....	.....	.. ...	13.08	0·72	13·80	13·08	.....	81·0	.....	Meets guarantee.
491	As guaranteed	1·6	2·0	6·0	2·0	1·0	9·0	8·0	2·0	....	50329	
	As found.....	. .	1 92	3·45	4·85	1·10	9·40	8·30	2·28	.....	.....	Meets guarantee.
93	As guaranteed	1·65	2·00	6·00	2·00	1·00	9·00	8 00	2·00	.....	50330	Apparently some mistake in identification or description. Is of full guaranteed value.
	As found.....	... .	4·07	... .	13·85	5·55	19·40	13·85	.....	.....	. ....	
814	As guaranteed	1·64	2·0	4 0	3·0	1·0	8·0	7·0	4 0	.... .	50331	
	As found	.....	2·05	5·00	1·86	1·02	7·88	6·86	3·94	... .	. .	Meets guarantee.
815	As guaranteed	0·82	1·0	4·0	3 0	1 0	8 0	7·0	1 0	.....	50332	
	As found.	...	1.50	5·75	2·29	1·31	9·35	8·04	2·52	.....	... ..	Meets guarantee.
*254	As guaranteed	.....	....	.. ..	.. ..	.....	.....	...	.....	85·0	50333	
	As found.	.....	.....	... ..	14·58	0·27	14·85	14·58	.....	85·2	.....	Meets guarantee.
....	..... .	.....	.....	.....	.....	.....	.....	.....	.....	.....	50334	Not identified, and apparently not registered. Said to be purchased as samples only by Mr. Reade and not for sale.
...	As found.. ...	.....	. . .	...	14 28	1·97	16·25	14 28	.....	79·3	..	
862	As guaranteed	....	.. .	....	.....	...	16 0	...	.....	80 0	50335	
	As found.. ...	....	... .	....	14·45	1·43	15·88	14·45	....	81·4	....	Meets guarantee.
557	As guaranteed	.....	.....	.....	12·8	.....	.....	.....	.....	....	50336	
	As found.....	...	....	.....	12·13	0·43	12·56	12·13	.....	94·8	.....	Meets guarantee.

*(24 per cent Soluble phosphates)=15 p.c. P_2O_5.

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF QUEBEC—					
1913.								
Mar. 26	Capital	37023	George Tanguay, Québec.	3 Lbs.	Nil.	Vendor		
" 26	Jupiter	37024	"	3 "	"	"		
" 26	Phœnix	37025	"	3 "	"	"		
" 26	Monarch	37026	"	3 "	"	"		
" 26	Union	37027	"	3 "	"	"		
" 26	Nestor	37028	George Tanguay, Québec.	3 "	"	Vendor		
" 26	Celtic	37029	" "	3 "	"	"		
" 27	Muriate of Potash.	37030	J. B. Reneaud et Cie, Quebec.	3 "	"	British Oil and Cake Mills, Liverpool.		
" 26	Globe	37031	George Tanguay, Québec.	3 "	"	Vendor		
" 27	Nitrate of Soda	37032	J. B. Reneaud et Cie, Quebec.	3 "	"	British Oil and Cake Mills, Liverpool.		
" 27	Sulphate of Potash	37033	" "	3 "	"	"		
" 27	Basic Slag	37034	" "	3 "	"	"		
April 18	Defiance	37036	P. T. Légaré, Ltd., Quebec.	3 "	"	Mich. Carbon Wks Detroit	Mfrs	
" 18	Thomas Phosphate Basic Slag.	37037	" "	3 "	"	Cross Fert. Co., Ltd., Sydney, N.S	"	
" 18	Fruit and Vine	37038	" "	3 "	"	Mich. Carbon Wks. Detroit	"	
" 18	Virginia Tobacco	37039	" "	3 "	"	"	"	
" 18	High Grade Garden and Vegetable.	37040	" "	3 "	"	"	"	
" 18	Royal Canadian	37041	" "	3 "	"	Cap. Chem. and Fert. Co., Buckingham.	"	
" 18	Victor	37042	" "	3 "	"	"	"	
" 23	North Western Canadian Potash Fertilizer.	37043	Eug. Julien et Cie, Ltd., Quebec.	3 "	"	The Am. Agr. Chem. Co., Buffalo, N.Y.	"	

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

F. X. W. E. BELAND, INSPECTOR.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total; including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total; Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
511	As guaranteed	4·0	5·0	.....	.....	.....	.....	8·0	6·0	.....	37023	Low in phosphoric acid, but meets guarantee in value. Compensated.
	As found.....	.....	5·70	.....	6·17	0·66	6·83	6·17	9·03	.....	.....	
510	As guaranteed	2·06	2·5	.....	.....	.....	.....	8·0	5·0	.....	37024	
	As found....	.....	4·30	...	8·35	1·23	9·58	8·35	7·58	.....	.....	Meets guarantee.
548	As guaranteed	2·47	3·0	.....	.....	.....	.....	6·0	7·0	.....	37025	
	As found.....	.....	3·00	.....	9·40	1·08	10·48	9·40	7·60	.....	.....	Meets guarantee.
682	As guaranteed	1·67	2·0	.....	.....	.....	.....	9·0	8·0	.....	37026	Low in potash, but meets guarantee in value. Compensated.
	As found.....	.....	1.50	.....	11·13	1·43	12·53	11·13	6·70	.....	.....	
507	As guaranteed	2·47	3·0	.....	.....	.....	.....	8·0	3·5	.....	37027	
	As found.....	.....	2 15	.....	9·13	1·32	10·45	9·13	5·20	.....	.....	Meets guarantee.
683	As guaranteed	1·65	2·0	.....	.....	.....	.....	8·0	3·0	.....	37028	
	As found.....	.....	1 50	...	7·98	1 25	9·23	7·98	4·69	.....	.....	Meets guarantee.
512	As guaranteed	.....	.....	.....	.....	.....	.....	10 0	5·0	.....	37029	Evidently mistake in identification.
	As found. ...	.....	.....	.....	14·64	3·61	18·25	14·64	...	82·5		
443	As guaranteed	.....	..	.....	.....	.....	.....	... ..	50·0	... .	37030	
	As found... .	.....	.....	.....	.....	.....	.....	.....	49·24	.....	.....	Meets guarantee.
547	As guaranteed	... .	.....	.....	.....	.....	.....	18·0	....	.....	37031	Evidently mistake in identification.
	As found... .	.....	.....	.....	10 66	1·14	11·80	10 66	6·73	.....		
273	As guaranteed	15·0	18·5	.....	.....	.....	.....	... ..	.....	.....	37032	
	As found.....	.. .	18 00	.....	.....	.... .	.....	.....	.....	.....	.....	Meets guarantee.
299	As guaranteed	.....	.....	.....	.....	.....	.. ...	.....	48·0	.....	37033	
	As found. ...	...	....	.....	.....	.....	.....	.....	48·18	.....	...	"
302	As guaranteed	.....	.....	.....	15·4	3·85	19·25	.....	.....	.....	37034	
	As found. ...	....	...	....	15·80	5·08	20 88	15·80	.....	86·3	.....	"
203	As guaranteed	1·65	2·0	6·0	2 0	1·0	9·0	8·0	2·0	.	37036	
	As f und ..	.....	2·18	4·50	4·09	1·74	10 33	8 59	2·52	.....	.....	"
591	As guaranteed	.....	.....	.....	13·6	.....	.....	.....	.....	.....	37037	
	As found.....	. ..	.....	...	15·18	1·30	16·48	15·18	.....	85·5	....	"
212	As guaranteed	1 65	2·0	6·0	2·0	1·0	9 0	8·0	10·0	.....	37038	
	As found. ...	....	2·25	6·58	1 91	1 24	9 73	8 49	10·79	....	.....	"
207	As guaranteed	1 65	2.0	6·0	2 0	1·0	9·0	8·0	4 0	.....	37039	
	As found. ...	..	2 0	5·00	3 23	1 37	9 60	8 23	3·77	....	.....	"
210	As guaranteed	1·65	2·0	6·0	2·0	1 0	9·0	8 0	6 6	.....	37040	
	As found. ...	....	2 16	7·05	1·49	1·31	9·85	8·54	6·41	.....	.....	"
84	As guaranteed	... .	4·0	.....	.....	.....	9·0	.....	5·0	.... .	37041	
	As found.....	... ..	4·31	.....	.....	.....	9 43	.....	6·37	.....	.....	"
83	As guaranteed	....	2 0	.... .	... ..	.... .	7·0	.....	3·0	.....	37042	
	As found.....	....	1·72	.....	.....	.....	9 65	.....	3 36	.....	....	"
335	As guaranteed	0·82	1·0	4.0	2·0	1·0	7·0	6·0	6·0	...	37043	
	As found. ...	. ....	1·00	2 12	4·01	1·02	7·15	6·13	7·06	... .	... .	

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF
1913.								
April 23	Thomas Phosphate Flour.	37044	Eug. Julien & Cie., Ltd., Quebec.	3 lbs.	Nil.	The Leeds Phosphate Wks, Leeds, Eng.	Mfrs.	
" 23	North Western Complete Manure.	37045	" "	3 "	"	The Am. Agr. Chem. Co., Buffalo, N. Y.	"	
" 18	North Western Havana Tobacco Grower.	37046	" "	3 "	"	"	"	
" 18	Juliens Special Canadian Fertilizer.	37047	" "	3 "	"	"	"	
" 18	North Western High grade Potash Fertilizer.	37048	" "	3 "	"	"	"	
" 18	Thomas Phosphate Meal.	37049	" "	3 "	"	Glengarnock Phosphate Wks, Leeds, Eng.	"	
								DISTRICT OF THREE RIVERS—
April 7	Fertilizer.	57251	I. A. Coutu, St. Felix de Valois.	4 lbs.	20			
" 7	Bowkers Superphosphate with Potash.	57252	" "	4 "	30			
" 7	Thomas Phosphate.	57253	" "	4 "	40			
" 14	Victor.	57254	Frs. Rivest, Joliette.	4 "	10	Cap. Chem. & Fert. Co., Buckingham		
" 14	Guano.	57255	Chevalier et Fils, Joliette.	4 "	20			
" 14	Grain Fertilizer.	57256	" "	4 "	10			
" 14	Victor.	57257	E. Goulet et Fils, St. Jacques.	3 "	6	Cap. Chem. & Fert. Co., Buckingham		
" 14	Fertilizer.	57258	A. M. Melancon, St. Jacques.	4 "	10			

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water	Phosphoric Acid per cent. Reverted or Citrate Soluble.	Phosphoric Acid per cent. Insoluble.	Phosphoric Acid per cent. Total.	Phosphoric Acid per cent. Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
QUEBEC—*Concluded.*												
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
253	As guaranteed	.....	.....	.....	13·5	.....	18·0	..	.....	80·0	37044	
	As found.....	.....	...	.....	13·25	4·20	17·45	13 25	.....	90·1	.....	Meets guarantee
226	As guaranteed	2·06	2·5	6·0	2·0	1·0	9·0	8·0	3 0	....	37045	
	As found.....	.....	2·38	5·70	2·20	1·68	9·58	7·90	2·81	.....	.	"
686	As guaranteed	1·65	2·0	6·0	2·0	1·0	9 0	8·0	4·0	.....	37046	
	As found.....	.. ..	2·13	6·60	1·49	1·29	9·38	8·09	3·90	.....	..	"
685	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	3·0	. .	37047	
	As found.....	.....	2·11	3·83	5·29	1·53	10 65	9·12	3·30	.....	..	"
687	As guaranteed	0·82	1·0	4 0	1·0	1·0	6·0	5·0	10·0	.....	37048	
	As found.. ..	.....	1·7	1·98	4·35	0·87	7·20	6·33	10·19	.....	.....	"
254	As guaranteed	.....	. .	.....	13·5	....	18·0	. . .	.....	85·0	37049	
	As found. . .	.....	. ...	....	13·98	2·86	16·84	13·98	.....	90·4	.....	Meets guarantee very nearly.
DR. V. P. LAVALLÉE, INSPECTOR.												
449	As guaranteed	2·47	3·0	.. ..	5·0	1·0	6·0	5·0	10·0	...	57251	
	As found	.....	.....	.....	9·05	4·50	13·55	9·05	... .	82·6	.....	Evidently mistaken identification.
(402	As guaranteed	.....	.....	6·0	4·0	1·0	11·0	10·0	2·0	.....	57252	
	As found.....	....	.....	10·35	2·83	2·87	16·05	13·18	0·70	.....	....	Probably mistaken identification.
338	As guaranteed	. ..	.. .	.....	12·0	2 0	14·0	.. ..	....	.....	57253	
	As found.....	.....	.....	.....	5·86	2·14	8·00	5·86	8 69	. ...	.....	Mistaken identification. Reg. 338 is a basic slag.
(83)	As guaranteed	.....	2·0	...	.....	.....	7·0	.....	3·0	.....	57254	
	As found	.....	2·40	.....	.....	.....	10·48	.....	3·38	.....	.....	Meets guarantee.
65	As guaranteed	.....	4 0	....	.... .	... ..	8 0	.....	10·0	. . .	57255	
	As found.....	.... .	1·91	.....	7·46	1·09	8·55	7·46	10·68	. ..	.....	Not properly identified. Inspectors mistake
65	As guaranteed	.....	4·0	.. ..	.....	.....	8·0	..	10·0	....	57256	
	As found.		0·60	....	11·88	1·42	13·30	11·88	10·22	.....	... .	Not ideutified. Inspector's mistake.
(83)	As guaranteed	.....	2·0	.....	. ...	.....	7·0	.. ..	3·0	.....	57257	
	As found. ...	.....	2·1	. . ..	. ...	... ..	11·0	.....	3·59	...	.....	Meets guarantee.
65	As guaranteed	. ...	4·0	.....	....	.....	8·0	.	10·0	.....	57258	
	As found.....	.....	1·80	.... .	6·85	0·83	7·68	6·85	10·54	.....	. ....	Not identified. Inspector's mistake.

5 GEORGE V., A. 1915

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF
1913.								
April 14	Victor.....	57259	Laurion, L'Epiphanie.	3 lbs.	10	Cap. Chem. & Fert. Co., Buckingham.	.....	.....
" 18	Fertilizer. ..	57260	L. Provost, L'Epiphanie.	3 "	10	Lesage Packing & Fert. Co., Montréal	.....	.....
" 18	Mich. Carbon Wks. Complete Fertlr.	57261	Simon Forest, L'Epiphame.	3 "	20	The Am. Agr. Chem. Co., Buffalo, N.Y.	.....	.....
" 18	Mich Carbon Wks. Virginia Tobacco.	57262	"	3 "	20	"	.....	.....
" 18	Thomas Phosphate.	57263	I. A. Marion, St-Jacques.	3 "	20	.....	.....	.....
" 18	Fertilizer.....	57264	"	3 "	20	The Am. Agr. Chem. Co., New York.	.....	.....
" 18	N. W. Havana TobaccoGrower	57265	"	3 "	15	The Am. Agr. Chem. Co., Buffalo, N.Y.	.....	.....
" 18	Fertilizer.....	57266	I. P. Charlebois, L'Assomption.	4 "	10	Lesage Packing Fert. Co., Montreal.	.....	.....
" 18	" ..	57267	"	4 "	10	"	.....	.....
" 18	N. Western Complete Havana Grower.	57268	Louis Pauzé, L'Assomption.	4 "	25	Am. Agr. Chem. Co., Buffalo, N.Y.	Eugène Julien, Quebec.	.....
" 18	N. Western Complete Havana.	57269	"	4 "	15	.....	"	.....
" 18	Fertilizer.....	57270		4 "	15	.....	"	.....
" 18	" .. .	57271	T. Brazeau, L'Assomption.	4 "	20	.....	Dupuy & Ferguson, Montreal.	.....
" 18	"	57272	"	4 "	20	Lesage Packing Fert. Co., Montreal.	.....	.....
" 18	Eng. Virginia Complete Fert-	57273	Bédard et Cie, L'Assomption.	3 "	25	.....	P. T. Légaré, Québec.	.....
" 18	" ..	57274	"	3 "	25	.....	"	.....
" 28	Crockers High-Grade Special Fertilizer.	57275	Ls. Alexis Piette, Berthier.	4 "	20	Am. Agr. Chem. Co., New York.	.....	.....
" 28	Mich. Carbon Wks. Complete Fertilizer.	57276	Pierre Beaudoin, Berthier.	4 "	20	Mich. Carbon Wks. Buffalo N.Y.	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

THREE RIVERS—*Continued.*

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Phosphoric Acid per cent. Reverted or Citrate Soluble.	Phosphoric Acid per cent. Insoluble.	Phosphoric Acid per cent. Total.	Phosphoric Acid per cent. Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
(83)	As guaranteed	.....	2·0	...	...	.....	7·0	.	3·0	.....	57259	Meets guarantee.
	As found.....	.....	2·00	.....	.....	.....	9·30	.....	3·24	.....		
449	As guaranteed	2·47	3·0	.....	5·0	1·0	6·0	5·0	10·0	.....	57260	Meets guarantee.
	As found.....	.....	2·00	.....	5·59	2·11	7·70	5·59	10·22	.....		
206	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	.....	57261	Meets guarantee.
	As found.....	.....	2·35	5 23	2·78	1 52	9·53	8·01	4·23	.....		
207	As guaranteed	1·65	2·0	6 0	2 0	1·0	9·0	8·0	4·0	.....	57262	Meets guarantee.
	As found.....	.....	2·10	3·25	5·36	1·19	9·80	8·61	4·36	.....		
253	As guaranteed	... ..	.....	.....	.....	.....	18·0	....	.....	80·0	57263	Meets guarantee.
	As found.....	.....	.....	.....	14·93	5·70	20 63	14·93	... ..	86·3		
687	As guaranteed	0·82	1·0	4·0	1·0	1·0	6·0	5·0	10·0	.....	57264	Meets guarantee.
	As found.....	.....	1·10	3·65	2·09	0·96	6·70	5·74	10·40	.....		
686	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	.....	57265	Meets guarantee.
	As found.....	.....	2·30	6 90	1·53	1·20	9·63	8·43	4·17	.....		
448	As guaranteed	1·65	2·0	.....	5·0	1·0	6·0	5·0	7·0	... ..	57266	Meets guarantee.
	As found... .	.....	1·75	.....	6·94	1·34	8·28	6·94	7·20	.....		
331	As guaranteed	1·0	1·25	.....	5·0	1·0	6·0	.....	3·0	.....	57267	Meets guarantee.
	As found. .	.....	1·10	.....	5·55	1·23	6·78	5·55	3·96	.....		
226	As guaranteed	2 06	2·5	6·0	2·0	1·0	9·0	8·0	3·0	.....	57268	Meets guarantee.
	As found.. ..	.....	2·50	4·70	4·55	2·30	11·55	9·25	3·13	.....		
686	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	.....	57269	Evident mistake in identification
	As found. ..	.....	.....	.....	12·45	5·40	17·85	12·45	.....	88·4		
686	As guaranteed	1·65	2·0	6·0	2·0	1 0	9·0	8 0	4·0	.....	57270	Meets guarantee.
	As found.....	...	2·10	6 58	1·62	1·48	9·68	8·20	4·48	.....		
259	As guaranteed	0·82	1 0	6·0	2·0	1·0	9·0	8·0	4·0	.....	57271	Much below guarantee in phosphoric acid and potash but not certainly identified.
	As found.....	.....	1·20	0·21	4·22	0·72	5·15	4·43	0·30	.....		
446	As guaranteed	1·65	2·0	.....	5·0	1·0	6 0	5·0	2·0	.....	57272	Meets guarantee.
	As found.....	.....	2·00	.....	4·78	1 22	6·00	4·78	2·09	.....		
206	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	.....	57273	Meets guarantee.
	As found.. ..	....	2·25	3·63	5·05	1·35	10·03	8·68	4·11	.....		
209	As guaranteed	1·65	2·0	6·0	2 0	1·0	9·0	8·0	5·0	.....	57274	Meets guarantee.
	As found.....	.....	2·50	5·23	3 67	1·65	10·55	8·90	4 22	.....		
261	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	..	57275	Meets guarantee.
	As found.....	....	2·10	6·95	2·39	1·24	10·58	9·34	3·94	... ..		
206	As guaranteed	1·65	2 0	6·0	2·0	1·0	9·0	8 0	4·0	..	57276	" "
	As found.....	.....	2·10	4·83	3·41	2·34	10·58	8·25	3 91	...		

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF
1913.								
April 28	Thomas Phosphate.	57277	L. N. Tourdain, Trois-Rivières.	3 lbs.	25	The Cross. Fort. Co. Sydney, N.S.	P.T. Légaré, Quebec.	
May 5	Thomas Phosphate.	57278	S. G. Laviolette, St. Jérôme.	3 "	Nil.	Thos. Phosphate, Leeds, Eng.	E. Julien	
" 5	Fertilizer.	57279	" "	3 "	"	Leeds Phosphate Wks., Leeds, Eng.	"	
" 5	Mich. Carbon Works High Grade Garden and Vegetable Fertilizer.	57280	Moïse Dubois, Ste. Thérèse.	3 "	15	Am. Agr. Chem. Co., Buffalo, N.Y.		
" 5	Mich. Carbon Wks. Complete Fertilizer.	57281	" "	3 "	15	" "		
" 5	Bowkers Potato & Veg. Phosphate.	57282	Alex. MacMillin, Ste. Thérèse.	3 "	15	Bowker Fert. Co., Bayway, N.J.		
" 5	Bowkers Canadian Tobacco Special.	57283	Alex. McCubbin	3 "	15	" "		
" 5	Bowkers Potato & Veg. Fertil.	57284	" "	3 "	15	" "		
" 5	Bowkers 6 p.c. Potato Fertilizer.	57285	" "	3 "	15	" "		
" 21	Thomas Phosphate.	57286	Edouard Valin, St. Augustin, Portneuf.	3 "	Nil.	Anglo-Canadian Chem. Co.		
" 21	Fertilizer	57287	" "	3 "	"	German Kali Wks., New York.		
" 22	"	57288	I. B. Ferland, Sorel.	3 "	"	Lesage Packing & Fert. Co., Montreal.		
" 22	"	57289	" "	3 "	"	" "		

SESSIONAL PAPER No. 14

ERTILIZERS AS SOLD.

THREE RIVERS—*Continued.*

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water	Phosphoric Acid per cent. Reverted or Citrate Soluble.	Phosphoric Acid per cent. Insoluble.	Phosphoric Acid per cent. Total.	Phosphoric Acid per cent. Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		p.c.	p.c.	p.c.	p.c.	p.	p.c.	p.c.	p.c.	p.c.	p.c.	
(591)	As guaranteed	....	.....	.....	13·6	...	....	....	.....	80·0	57277	Meets guarantee
	As found...	.....	.. ..	....	13·63	1·10	14·73	13·63	.....	86·0		
253	As guaranteed ...	.....	.....	..	....	..	18·0	...	.. ..	80·0	57278	" "
	As found. ..	.....	.....	. .	15·85	4·10	19 95	15·85	.....	93·6		
253	As guaranteed	.. .	.....	.....	....	18·0	.....	.....	80 0	57279	Evident mistake in inentification. The sample is not a slag.	
	As found...	. ..	... .	6·70	1·05	7·75	6·70	6·22	.....			
(210)	As guaranteed 1·65	2 0	6·0	2·0	1·0	9·0	8·0	6·0	.....	57280	Low in potash.	
	As found.....	2·25	5·85	2·60	1·50	9·95	8·45	4·43	.....		Uncertain identification.	
206	As guaranteed 1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	....	57281	Meetsguarantee.	
	As found.....	2·15	5·21	2·96	1·59	9·83	8·24	7·45	....			
(468)	As guaranteed 1·65	2 0	6·0	2·0	1·0	9·0	8·0	2·0	.	57282	" "	
	As found.....	1·50	3·53	3·58	1·74	8·85	7·11	5·75	.....			
506	As guaranteed 1·65	2·00	6·0	2 0	1·0	9·0	8·0	4·0	.....	57283	Low in potash.	
	As found.....	2·30	4·15	4 65	2·23	11·03	8·80	1·95	.. ..			
550	As guaranteed 2·47	3·0	6·0	2·0	1·0	9 0	8·0	4·0	.. ...	57284	"	
	As found.	2·23	5·88	3·23	1·97	11·08	9·11	2·18	....			
405	As guaranteed 0·82	1·0	4·0	2·0	1·0	7·0	6·0	6·0	.. ...	57285	Deficient in potash but fully compensated by excess of nitrogen and phosphoric acid. May be a mistake in identification of the brand.	
	As found.	3·30	5 88	3·23	1·97	11·08	9·11	4·24	.....			
1	As guaranteed	.....	.....	12·0	.....	15·0	.....	....	..	57286	Meetsguarantee.	
	As found.....	.....	.....	12·68	2 12	14·80	12 68	.....	....			
691	As guaranteed	.....	....	.....	.....	...	... ..	48 00	.....	57287	"	
	As found.....	..	.....	.....	.....	...	....	51·36				
446	As guaranteed 1·65	2·0	.....	5·0	1·0	6·0	5·0	2·0	... ..	57288	"	
	As found.	1·30	.....	5·08	1·77	6·85	5·08	5·37	. ....			
447	As guaranteed 1·65	2·0	.....	5·0	1·0	6·0	5·0	5·0	. .	57289	"	
	As found.....	2·12	...	5·62	2·23	7·85	5·62	6·33	... ..			

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF					
1913.								
May 27	Mich. Carbon Virg. Tobacco Fertilizer	57290	P. Contant, St-Alexis.	3 lbs.	15	Mich. Carbon Works, Bnffalo, N.Y.	.....	.....
" 27	Mich. Carbon, Bone and Potash.	57291	"	"	"	"	.....	.....
" 29	Fertilizer.....	57292	D. Dupuis et Fils, St. George, P.Q.	"	"	.....	.....	.....
" 29	"	57293	"	"	"	.....	.....	.....
" 29	"	57294	"	"	"	.....	.....	.....
" 29	"	57295	"	"	"	German Kali Works, Berlin.	.....	.....
" 29	"	57296	I. E. Dupuis, St. George, P.Q.	"	"	Mich. Carbon Works, Bnffalo, N.Y.	.....	.....
" 29	Mich. Carbon, North West'n Havana Tobacco Fertilizer.	57297	"	"	"	"	I. E. Julien, Quebec.	.....
" 30	Victor.....	57298	Jos. Alexis Piette, Berthier.	"	Nil.	Cap. Chem. and Fert. Co., Buckingham	.....	.....
" 30	Eureka.....	57299	"	"	"	.....	.....	.....
June 2	Mich Carbon Works, Virg. Tobacco Fertilizer.	57300	Henri Leblanc, St. Jacques.	"	5	Am. Agr. Chem. Co., New York.	.....	.....
" 2	Fertilizer.....	58301	"	"	Nil.	"	.....	.....
" 9	North Western Havana Tobacco Grower.	58902	Alexandre Varin, St. Alexis.	"	"	"	.....	.....
" 7	High Grade Potato Phosphate	58903	Thermas Durval, St. Esprit.	"	"	Nova Scotia Fert. Co.	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

THREE RIVERS—*Continued.*

Registration Number	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
207	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	...	57290	
	As found	.....	2·20	4·90	4·18	1·42	10·50	9 08	4·35	.....	.....	Meets guarantee.
205	As guaranteed	1·65	2·0	6·0	2 0	1·0	9·0	8·0	4 0	... ..	57291	
	As found.....	....	2·10	5·13	2·63	1·44	9·20	7 76	4·07	.....	.....	"
53	As guaranteed	.	1·0	. .	.	....	.....	.....	9 0	2·0	.....	57292
	As found... ..	...	1·20	.....	5·95	1·38	7·33	5·95	3·49	.....	.....	Low in available phosphoric acid compensated by excess potash. Probable mistake in identification.
447	As guaranteed	1·65	2·0	.....	5·0	1·0	6·0	5·0	5·0	.....	57293	
	As found.....	. . .	2·10	....	6·02	1·78	7·80	6·02	5·98	.....	. . .	Meets guarantee.
448	As guaranteed	1 65	2·0	....	5·0	1·0	6·0	5 0	7·0	.....	57294	
	As found.....	...	1·80	. . .	6·46	1·44	7·90	6·46	7·69	.....	. . .	"
17	As guaranteed	2·05	2·50	6·0	2 0	1·0	9.0	8·0	1·5	....	57295	
	As found.....	.....	. . .	.....	.....	.. ..	.... .	.....	51 16	.....	.....	Apparently a wrong registration number—is a potash salt of good quality.
206	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	.....	57296	
	As found	. ...	2·30	4·95	3·75	1·25	9·95	8·70	4·04	... .	.....	Meets guarantee.
(686)	As guaranteed	1 65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	.. ..	57297	
	As found.....	.....	2·20	6·45	1·55	1·35	9·35	8·0	4·8	. .	. . . .	"
(83)	As guaranteed	....	2·0	. ...	.....	.....	....	7·0	2·0	.....	57298	
	As found ...	....	2·90	...	6·34	1 89	8·23	6·34	2·27	.....	.....	"
(85)	As guaranteed	.. ...	3·0	.....	....	..	.. .	5·0	4·0	... ..	57299	
	As found... .	.....	1·90	.....	6·32	3·18	9·50	6·32	4·50	.....	.....	Low in nitrogen, but compensated in value. Uncertain identification.
207	As guaranteed	1·65	2 0	6 0	2 0	1·0	9·0	8·0	4·0	. . .	57300	
	As found.....	.....	1·85	5 18	3·22	1·08	9·48	8·40	6·83	.....	.....	Meets guarantee.
206	As guaranteed	1 65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	.....	58901	
	As found.....	.....	2·05	3·65	4·36	1·54	9·55	8·01	4·66	.....	....	"
686	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	.....	58902	
	As found.....	.. .	2·20	4·20	4·34	1·39	9·93	8·54	4·60	.....	.....	"
687	As guaranteed	.....	...	....	....	.....	...	.....	10 0	.....	58903	
	As found.....	.....	...	4·21	2·08	0·74	7·03	6·29	9·84	....	.....	"

DISTRICT OF

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report. (Is not an expression of opinion.)
1913.								
june 4	Fertilizer.	58904	Ulric Beaudoin, St. Julienne.	3 lbs.	Nil.	Cap. Chem. and Fert. Co., Buckingham.	.....	.....
" 6	"	58905	Felix Muloin, St. Roch.	"	"	.....	.....	.....
" 9	Northwestern Havana Tobacco Grower.	58906	Felix Lebeau, St. Paul L'Ermite.	3 "	"	Am. Agr. Chem. Co., New York.	.....	.....
" 5	Fertilizer.	58907	Frs. Godfrind, L'Assomption.	3 "	"	Lesage Packing and Fert. Co.	.....	.....
" 10	"	58908	Camille Pelletier, St. Jacques.	3 "	5	"	.....	.....
" 10	"	58909	"	3 "	5	"	.....	.....
" 10	"	58910	"	3 "	5	"	.....	.....
" 11	"	58911	K. Monahan, St. Lin.	3 "	Nil.	Cap. Chem. and Fert. Co., Buckingham.	.....	.....
" 11	Bowkers Potash Bone.	58912	"	3 "	"	Bowker Fert. Co.	.....	.....
" 11	Bowkers Superphosphate with Potash.	58913	"	3 "	"	"	.....	.....
" 11	Virginia Tobacco Fertilizer.	58914	Alfred Henri, St. Lin.	3 "	"	Am. Agr. Chem. Co., Buffalo, N.Y.	.....	.....
" 12	North Western Complete Manure.	58915	J. B. Limoges, St. Anne.	3 "	"	"	.....	.....
" 12	North Western Havana Grower.	58916	"	3 "	"	"	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

THREE RIVERS—*Concluded.*

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total; including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total; Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
83	As guaranteed	.....	2·0	.....	...	... ..	...	7·0	3·0	.....	58904	
	As found....	.....	1·80	. ..	5·99	4·01	10·0	5·99	2·92	..	.....	Meets guarantee, nearly.
83	As guaranteed	.....	2·0	. ....	...	.....	.....	7·0	3·0	.....	58905	
	As found.....	....	2·10	....	6·33	4·01	10·0	6·33	3·21	....	...	Meets guarantee.
686	As guaranteed	1·65	2 0	6·0	2·00	1·0	9 0	8·0	4·0	.....	58906	Is a basic slag;
	As found.....	.....	..	....	14·33	4·50	18·83	14·33	....	89·9	....	incorrect registration number given by inspector.
486	As guaranteed	3·7	4 5	6·0	2·0	1·0	9·0	8·0	9·0	.....	58907	Incorrectly identified by inspector.
	As found.....	....	...	.....	5·50	2·15	7·65	5·50	3·16	.....	....	
448	As guaranteed	1·65	2 0	.....	5·0	1·0	6·0	5·0	7·0	.....	58908	
	As found..		3·20	. . .	5·05	1·85	6·90	5·05	7 10	. ..	.....	Meets guarantee.
331	As guaranteed	1 0	1·25	....	5·0	1·0	6·0	...	3 0	... ..	58909	
	As found..		1·00	.....	5·20	2 15	7·35	5·20	3·59	....	.....	"
447	As guaranteed	1·65	2·0	.....	5·0	1 0	6·0	5·0	5·0	.....	58910	
	As found.....	... ..	1·40	.....	5·00	1·50	6·50	5·00	5·50	.....	.....	"
. .	....	.... .	.....	.....	.....	.....	.....	.....	... ..	.....	58911	Inspector gives no registration number and cannot identify
....	As found.....	.....	.. ..	.....	5·61	3 47	9·08	5·61	2·12	.....	.....	
404	As guaranteed	0·82	1·0	4·0	2·0	1·0	7·0	6·0	2·0	.....	58912	
	As found... .	.	1·30	5·79	2·75	1 49	10 03	8·54	2·79	. ...	.....	Meets guarantee.
402	As guaranteed	.....	.....	6·0	4 0	1·0	11·0	10·0	2 0	.....	58913	"
	As found..		.....	7·55	3·89	1·89	13 33	11 44	2·13	.....	.....	
207	As guaranteed	1·65	2·0	6·0	2·0	1·0	9 0	8·0	4 0	... ..	58914	
	As found.	.....	1·80	6·00	3·02	1·01	10·03	9·02	1·40	.....	.....	"
226	As guaranteed	2 06	2·50	6·0	2 0	1 0	9 0	8·0	3·0	.....	58915	
	As found.....	.....	2·70	6 03	2 26	1·14	9·43	8·29	5·40	.....	.....	"
686	As guaranteed	1·65	2·0	6·0	2 0	1·0	9·0	8·0	4·0	....	58916	Is a basic slag;
	As found..	.....	.... .	.....	15·20	3·05	18·25	15·20	.....	95·6	.....	incorrect registration given by inspector.

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
								DISTRICT OF EASTERN TOWNSHIPS—
1913.								
Mar. 10	Thomas Phosphate Basic Slag.	1561	O. Lemire, Victoriaville.	3 jars	Nil.			
" 10	Michigan Carbon Wks., Complete Fertilizer.	1562	"	3 "	"	Mich. Carbon Wks., Buffalo		
" 13	Jupiter	1563	C. Mercier, St. Marie Beauce.	3 "	"	Geo. Tanguay, Quebec.		
" 17	Fruit and Vine.	1564	O. Bolduc, St. George de Windsor.	3 "	"	Mich. Carbon Wks., Buffalo		
April 15	Bowker 6 p. c. Potato.	1565	A. R. Dionne, South Durham.	3 "	"	Bowker Fert. Co., Boston.		
" 15	Sure Crop Phosphate.	1566	"	3 "	"	"		
" 15	Superphosphate with Potash.	1567	"	3 "	"			
" 15	Animal Fertilizer.	1568	G. H. Farquhar, South Durham.	3 "	"	Burlington Rendering Co., Burlington.		
" 15	Special Potato	1569	"	3 "	"	"		
" 15	Grain Fertilizer.	1570	C. W. Nixon, L'Avenir.	3 "	"	"		
" 16	Eclipse Phosphate for all Crops.	1571	McLeay & Riddle Bros., Danville.	3 "	"	The Am. Agr. Co., Boston.		
" 16	Bone, Blood and Potash.	1572	H. Roux & Fils, Danville.	3 "	"	Prov. Chem. Fert. Co., St. John, N.B.		
16	Victor Guano	1573	"	3 "	"	"		
" 16	Grain & Potash	1574	"	3 "	"	"		
" 16	Potato & Vegetable Phosphate	1575	D. Taylor, Richmond.	3 "	"	Bowker Fert. Co, Boston.		
" 16	Corn phosphate.	1576	"	3 "	"	"		
16	Potato & Vegetable.	1577	"	3 "	"	"		
17	Victor Complete	1578	L. E. Thibaudeau, Plessisville.	3 "	"	Cap. Chemical & Fert. Co., Buckingham		
" 17	Royal Canadian	1579	"	3 "	"	"		
" 17	Union	1580	Geo. Lavoire, Plessisville.	3 "	"	Geo. Tanguay, Quebec.		
" 17	Celtic	1581	"	3 "	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Phosphoric Acid per cent. Reverted or Citrate Soluble.	Phosphoric Acid per cent. Insoluble.	Phosphoric Acid per cent. Total.	Phosphoric Acid per cent. Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. C. ROULEAU, INSPECTOR.												
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
591	As guaranteed	.. .	.....	.....	13·60	....	....	..	.....	....	1561	
	As found.....	.....	.....	.....	13·25	0·83	14·18	13·25	.....	84·2	....	Meets guarantee.
206	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	.... .	1562	"
	As found..	.....	2·37	5·70	2·48	1·50	9·68	8·18	4·13	.....	.....	
510	As guaranteed	2·06	2·5	.....	.....	.....	.....	8·0	5 0	.....	1563	Potash slightly low; but value compensated by excess phosphoric acid.
	As found. ..	... ..	2·40	11·20	1·10	1·03	13·33	12·30	3·51	.....	.. ..	
212	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	10·0	.....	1564	
	As found.....	.....	2·50	5·08	2·95	1·52	9·55	8·03	9·76	.....	.....	Meets guarantee.
96	As guaranteed	0·82	1·0	4·0	2 0	1·0	7·0	6·0	6·0	.....	1565	
	As found.....	....	1·05	3·63	3·29	1·31	8·23	6·92	7·69	.....	.....	"
97	As guaranteed	0·82	1·0	6 0	2·0	1·0	9·0	8·0	2 0	.....	1566	
	As found.....	.....	1·05	5·15	4·09	1·36	10 60	9·24	2·30	.....	...	
99	As guaranteed	.....	.....	6·0	4·0	1·0	11 0	10·0	2·0	.....	1567	"
	As found.....	.....	1·17	5·35	3·76	1·57	10·68	9·11	2·47	.....	.. ...	
834	As guaranteed	2·0	2·5	2·85	2·15	3·0	8·0	5·0	4·0	.....	1568	"
	As found.....	.....	2·60	2 94	4·46	2·00	9·40	7·40	4·22	.....	.....	
832	As guaranteed	2·46	3·0	2·52	2·48	3·0	8·0	5·0	6·0	.. ...	1569	
	As found.....	.....	3·0	3·46	3·95	1·09	8·50	7·41	6·22	.....	.....	
833	As guaranteed	1·0	1·25	4·71	2 29	1·0	8·0	7·0	4·0	...	1570	
	As found.....	.....	1·60	6 00	1·77	0·58	8·35	7·77	4·03	.....	.....	"
4	As guaranteed	1·03	1·25	6·0	2·0	1·0	9·0	8·0	2 0	.....	1571	
	As found. ...	.....	1·50	5·08	3·34	1 51	9·93	8·42	2·46	... .	.....	"
71	As guaranteed	...	2·0	.....	.....	.....	7·0	.....	4·0	.....	1572	
	As found.....	.....	2·25	.....	6·58	0 82	7·40	6·58	5·33	.... .	.....	"
68	As guaranteed	.. ...	2·0	.....	..	...	7·0	.....	2·5	. .	1573	
	As found.....	.. .	2·10	....	.....	.....	9·85	....	2·62	.....	.....	
67	As guaranteed	..	.....	.....	.....	.....	12·0	.....	2·0	.. .	1574	
	As found....	.....	...	..	10·62	1·63	12·25	10 62	2·22	....	.....	"
92	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8 0	2 0	.....	1575	
	As found. ...	.. .	1·90	4·00	4·13	1·47	9·60	8·13	2·05	....	.....	"
93	As guaranteed	1·65	2 0	6·0	2·0	1·0	9·0	8·0	2 0	.. ..	1576	
	As found.....	...	1·80	3·80	4·50	1·55	9·85	8 30	2·23	.....	.....	"
716	As guaranteed	2·47	3 0	6·0	2·0	1·0	9·0	8 6	4·0	.....	1577	
	As found... .	.....	2 18	4·08	4·44	1·26	9 78	8·52	5·14	.....	...	"
83	As guaranteed	.....	2·0	....	.....	...	7·0	.....	3 0	.....	1578	
	As found.....	....	2 20	.....	.....	.	11·30	.....	3·61	.....	.....	"
	As guaranteed	.....	4·0	....	....	.	9·0	.....	5·0	.....	1579	
84	As found....	.....	4·75	...	....	.....	9·10	. ..	5·91	.....	.....	"
507	As guaranteed	2·47	3·0	.....	8·0	....	.. .	8·0	3·5	. . .	1580	
	As found.....	.....	3·10	. .	7·55	0·65	8·20	7·55	4·83	.....	.....	"
512	As guaranteed	.....	.....	....	.....	...	...	10·0	5·0	....	1581	
	As found.....	....	.....	.....	10 39	1·04	11·43	10·39	4·94	....	...	

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF EASTERN					
1913.								
April 17	Nestor	1582	Geo. Lavoie, Plessisville.	3 jars.	Nil.	Geo. Tanguay, Quebec.		
" 17	Capital	1583	"	3 "	"	"		
" 17	Monarch	1584	"	3 "	"	"		
" 17	Jupiter	1585	"	3 "	"	"		
" 21	Fish Guano	1586	J. T. Ralston, Sutton.	3 "	"	National Agr. Corporation, Chicago.		
" 21	Bone & Potash Square Brand.	1587	J. T. Ralston, Sutton.	3 "	"	Bowker Fert. Co, Boston.		
" 12	Farmers' Choice.	1588	"	3 "	"	Nat. Agr. Corporation, Chicago.		
" 21	Extra Superphosphate and Potash.	1589	"	3 "	"	"		
" 21	Pacific Nobsque Guano for all crops.	1590	R. J. Crowell, Sutton.	3 "	"	The Am. Agr. Chem. Co., Boston.		
" 21	Soluble Pacific Guano.	1591	"	3 "	"	"		
" 21	Reads Practical Potato Special.	1592	"	3 "	"	"		
" 23	Sure Crop Phosphate.	1593	Tinny & Loiselle, Waterloo.	3 "	"	Bowker Fert Co Boston		
" 23	Vermont Phosphate.	1594	"	3 "	"			
" 23	Dissolved Phosphate.	1595	A. L. Ralston, Knowlton.	3 "	"	Buffalo Fert Co Buffalo		
" 23	Bradley's Potato Fertilizer.	1596	"	3 "	"	The Am Agr Chem Co Boston		
" 23	Eclipse Phosphate for all crops.	1597	"	3 "	"	"		
" 24	Mich. Carbon Homestead Dissolved Bone.	1598	J. H. Aubin, East Angers.	3 "	"	Mich Carbon Wks Detroit		
" 25	Corn and Vegetable Fertlr.	1599	L. A. Plante, St. Hyacinthe.	3 "	"	Lesage Frack. & Fert. Co., Ltd., Montreal.		
" 25	Thomas Phosphate.	39081	"	3 "	"	"		
" 25	Potato Fertilizer	39082	"	3 "	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total; including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total; Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
TOWNSHIPS—*Continued.*												
633	As guaranteed	1·65	2·0	....	.....	.....	.....	8·0	3·0	.....	1582	
	As found.....	.....	2·00	....	10·87	1·13	12·00	10·87	3·41	....	.....	Meets guarantee.
511	As guaranteed	4·0	5·0	....	.....	.....	.....	8 0	6 0	.....	1583	
	As found	.....	6·40	.....	8·94	0·64	9 58	8·94	6·47	.....	.....	"
682	As guaranteed	1·67	2·0	.....	.....	.....	.....	9·0	8·0	.....	1584	
	As found.....	.....	2·50	.....	9·14	1·09	10·23	9·14	10·36	...	.....	"
510	As guaranteed	2·06	2·5	.....	.....	.....	.....	8·0	5 0	.....	1585	
	As found.....	.....	3·50	.....	9·57	2·03	13·60	9·57	6·14	.....	....	"
637	As guaranteed	0·80	1·0	7·0	2·0	1·0	10·0	9·0	2 0	... .	1586	
	As found.....	.....	1·20	6·50	2·80	1·68	10·98	9·30	2·32	.....	.....	"
95	As guaranteed	0 82	1·0	4·0	2·0	1·0	7·0	6·0	2·0	.....	1587	"
	As found.....	....	1·21	4·35	2·16	0·72	7·23	6·51	2·78	.....		
639	As guaranteed	0·80	1·0	6·0	2·0	1·0	9·0	8·0	5·0	.....	1588	"
	As found.....	.....	1·18	4·20	3·55	2·03	9·78	7·75	5·66	.....		
636	As guaranteed	.....	.....	8·0	2·0	1·0	11·0	10·0	8·0	.....	1589	"
	As found	.....	0·17	8 90	1·38	2·05	12·33	10·28	7 20	.....		
16	As guaranteed	1·03	1 25	6·0	2·0	1·0	9·0	8·0	2·0	.....	1590	"
	As found.....	.....	1·30	3·85	4·21	1·72	9 78	8·06	2·14	.....		
14	As guaranteed	2 06	2·5	6·0	2·0	1·0	9·0	8·0	1·5	.....	1591	"
	As found.....	.....	2·50	5·20	3·37	1·38	9·95	8 57	1·89	.... .		
9	As guaranteed	0·82	1·0	3·0	1·0	1·0	5·0	4 0	8·0	.....	1592	"
	As found....	.....	1·20	3·14	1·42	0·87	5·43	4·56	6·93	....		
773	As guaranteed	0·82	1·0	6·0	2·0	1·0	9·0	8·0	2·0	.....	1593	"
	As found.....	.....	1·00	6·05	2·71	1·89	10·65	8·76	2·80	.....		
91	As guaranteed	2·47	3·0	6·0	2·0	1·0	9·0	8·0	4·0	.....	1594	"
	As found	.....	2·50	6·40	1·86	1·34	9·60	8·26	4·96	.....		
49	As guaranteed	.....	... ..	12·0	.....	1·0	15·0	14·0	.. ..	.....	1595	"
	As found	.....	.....	11·85	1·53	3·67	17·05	13·38	.....	... .		
3	As guaranteed	2·06	2·5	6·0	2·0	1·0	9·0	8·0	3·0	.....	1596	"
	As found.....	.....	2·20	4·53	3·75	1·62	9·90	8·28	5·84	....		
4	As guaranteed	1·03	1·25	6·0	2·0	1·0	9·0	8·0	2·0	.....	1597	"
	As found.....	.....	1·25	4·40	4·46	1·89	10·75	8·86	1·60	.....		
202	As guaranteed	.. .	.....	10·0	2·0	1·0	13·0	12·0	.....	.....	1598	"
	As found....	.....	.....	8·23	2·90	1·45	12·58	11·13	.....	.....		
447	As guarauteed	1·65	2 0	.....	5·0	1·0	6·0	5·0	5·0	.....	1599	"
	As found.....	.....	1·75	.....	6·33	1·47	7·80	6 33	5·74	.....		
338	As guaranteed	.....	.....	.....	12·0	2·0	14·0	.....	.....	.....	39081	Below guarantee.
	As found.....	.....	.....	.....	9·40	3·31	12·71	9·40	.....	77·6		Is very coarsely ground.
449	As guaranteed	2·47	3 0	.....	5·0	1·0	6·0	5·0	10·0	.....	39082	Meets guarantee.
	As found	.....	2·30	.....	6·59	1·21	7·80	6·59	9·74	.....		

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF EASTERN TOWNSHIPS—					
1913.								
April 25	Fine Ground Bone.	39083	L. A. Plante, St. Hyacinthe.	3 jars.	Nil.	Lesage Packing and Fertilizer Co., Ltd., Montreal.		
" 25	Special for Tobacco.	39084	" " ..	3 " .	"	"		
" 25	Lesage Grain and Wheat Fertilizer.	39085	" " ..	3 " .	"	"		
			DISTRICT OF MONTREAL—					
April 8	Bradley's Potato and Vegetable.	51266	Dupuy & Ferguson, Jacques Cartier Square, Montreal.	3 lbs.	Nil.	Am. Ag. Chem. Co.		
" 8	Bean and Potato Phosphate.	51267	" " ..	3 " .	"	" ..		
" 8	Bradley B	51268	" " ..	3 " .	"	" ..		
" 9	Gilt Edge Potato and Tobacco Manure.	51269	Montreal Abattoirs Ltd., Montreal.	3 " .	"	Vendors		
" 9	Corn and Cereal Special.	51270	" " ..	3 " .	"	"		
" 9	Montreal Special Potato Manure	51271	" " ..	3 " .	"	"		
" 9	4-7-10 Special ..	51272	" " ..	3 " .	"	"		
" 11	Lesage's Royal Potato Manure.	51273	Lesage Packing and Fert. Co., Montreal.	3 " .	"	"		
" 11	Quebec Special..	51274	" " ..	3 " .	"	"		
" 11	Lesage's Tobacco Fertilizer.	51275	" " ..	3 " .	"	"		
" 11	Lesage's Grain and Wheat.	51276	" " ..	3 " .	"	"		
" 16	Crockers New General Crop.	51277	Lepailleur frères, Lachine, P.Q.	3 " .	"	.....		
" 26	Tobacco Manure	51278	Wm. Ewing Co., Ltd., Montreal.	3 " .	"	W. A. Freeman Co., Ltd., Hamilton.		
" 26	Sure Growth....	51279	"	3 " .	"	"		
" 26	Phosphate Powder.	51280	"	3 " .	"	"		
" 26	Potato Manure.	51281	"	3 " .	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total; including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total; Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.												
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
330	As guaranteed	2·47	3·0	.....	.....	.....	22·58	.....	.....	.....	39083	
	As found	.....	3·00	.....	16·63	9·60	26·23	16·63	.....	. ...	.....	Meets guarantee.
448	As guaranteed	1·65	2·0	.....	5·0	1·0	6·0	5·0	7·0	.....	39084	
	As found.....	.. ..	2·10	.....	5·71	1 29	7·00	5·71	7·61	.....	.....	"
446	As guaranteed	1·65	2·0	.. ..	5·0	1·0	6·0	5·0	2·0	.. ..	39085	
	As found.....	.....	1 80	... ..	5·49	2·01	7·50	5·49	3·58	.....	. .	"
J. J. COSTIGAN, INSPECTOR.												
	As guaranteed	3 29	4·0	6·0	2·0	1·0	9 0	8 0	7·0	..	51266	Meets guarantee.
735	As found.. .	.....	3·10	7·70	1·87	0·96	10·53	9·57	7·47	.. ...	.....	
260	As guaranteed	0·82	1·0	6·0	2·0	1·0	9·0	8·0	4·0	.....	51267	
	As found.....	. ...	1·25	7·48	1·52	1·00	10·00	9·0	4·84	.....	.....	"
259	As guaranteed	0 82	1 0	6·0	2·0	1·0	9·0	8·0	4·0	.....	51268	
	As found.. ..	.....	1·20	7·38	1·76	1·11	10·25	9·14	4·92	.....	.....	"
555	As guaranteed	.....	3 0	....	.....	.....	.....	7·0	10·5	.....	51269	* Much below
	As found.....	.....	2·65	.....	11·09	2·39	13·48	11·09	2·49	.....	.....	guarantee in potash.
552	As guaranteed	.....	2·0	.....	.....	.....	.....	8·0	2 0	.....	51270	
	As found	.....	2·67	....	9·38	3·32	12 70	9 38	3·98	.....	.....	Meets guarantee.
556	As guaranteed	. ...	1·0	.....	.....	.....	....	8·0	5 0	.....	51271	
	As found.....	. .	1·07	..	8·96	2 91	11·90	8 96	3·82	.....	.....	Meets guarantee nearly.
856	As guaranteed	4·0	4·58	....	.....	.....	.....	7·0	10·0	.....	51272	Low in potash.
	As found.....	....	4 80	.....	9·41	3 62	13 03	9·41	6·76	.....	.....	
449	As guaranteed	2·47	3·0	... ..	5·0	1 0	6·0	5·0	10·0	.....	51273	
	As found.....	.....	2·85	.....	6 81	1·87	8 68	6·81	12·14	.....	.....	Meets guarantee.
331	As guaranteed	1·0	1·25	...	5 0	1 0	6·0	....	3·0	.....	51274	
	As found	.....	1·31	....	7·43	1·82	9 25	7·43	5·45	.....	.....	"
448	As guaranteed	1·65	2·0	.....	5·0	1 0	6·0	5·0	7·00	.....	51275	"
	As found.....	....	1 89	.....	7·06	0·99	8·05	7·06	8·07	.....	....	
446	As guaranteed	.....	2·0	.....	5·0	1·0	6·0	5·0	2·0	.....	51276	
	As found. ...	....	1·99	.....	7 21	1·12	8·33	7·21	3·07	.. ...	.....	"
301	As guaranteed	0·82	1·0	6·0	2·0	1·0	9·0	8·0	1·0	.....	51277	
	As found	.....	1·10	6·22	1·99	1 09	9·30	8·21	1·31	.....	. ..	"
149	As guaranteed	2·47	3 0	5·0	2·0	0·25	7.25	7 0	5·0	.....	51278	
	As found....	.....	2·20	4·34	6·36	·52	12·22	10 70	6·47	....	.....	"
144	As guaranteed	2·89	3·5	5·0	3·0	0·25	8·25	8·0	3·0	.....	51279	
	As found.....	.....	2·30	4·01	6·09	1·80	11·90	10·10	3·78	....	....	"
151	As guaranteed	.....	.... .	13·0	2 0	0·50	15·50	15·0	.....	.....	51280	
	As found.....	....	.....	14 93	1·62	1·03	17·58	16·55	...	.. ..	....	"
145	As guaranteed	2·47	3 0	5·0	3·0	0·25	8·25	8·0	5·0	.....	51281	
	As found.....	.....	2·20	3·91	6·28	1·44	11·63	10 19	6·53	....	.....	"

* Manufactures claims should be Reg. No. 552, when finding would be O.K.

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VALLEYFIELD—								
1913.								
April 22	Corn Phosphate	51356	Besner & Chasle, Valleyfield.	3 Lbs.	Nil.	Bowker Fert. Co.	Mfrs	
" 22	Sure Crop Phosphate.	51357	"	3 "	"	"		
" 22	Northwestern Can. Potash.	51358	N. Langevin, Valleyfield.	3 "	"	"		
" 22	Thomas Phosphate Flour.	51359	"	3 "	"			
May 14	Bowkers Potato	51360	W. J. Boyd, Lachute, P.Q.	3 "		Bowker Fert. Co.		
" 14	Corn Phosphate	51361	"	3 "		"		
" 14	Bowkers Superphosphate with potash.	51362	"	3 "		"		
" 21	Royal Canadian	51363	D. M. Macpherson Lancastor, Ont.	3 "		"		
DISTRICT OF OTTAWA—								
April 16	Bradley's New Method.	51768	H. Brown & Sons, Brockville.	3 Lbs.	Nil.	Amer. Agr. Chem. Co., Buffalo, N.Y.		
" 16	Bradley's Potato Fertilizer.	51769	"	3 "	"	"		
" 16	Bradley's Complete Manure for Potatoes Vegetables.	51770	"	3 "	"	"		
" 16	Bradley's B.D. Sea Fowl Guano	51771	"	3 "	"	"		
" 16	Read's High Grade Farmer's Friend.	51772	A. E. Cameron, Brockville.	3 "	"	Amer. Agr. Chem. Co., Carteret, N.J.		
" 16	Read's Standard Superphosphate	51773	"	3 "	"	"		
" 16	Read's Practical Potato Special.	51774	"	3 "	"	"		
" 16	Read's Corn, Wheat and Rye	51775	"	3 "	"	"		
" 16	Read's Pioneer..	51776	"	3 "	"	"		
" 16	Read's Farmer's Reliable.	51777	W. J. Wood, Smith's Falls.	3 "	"	"		
" 16	Read's All Crop.	51778	"	3 "	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinon of the Chief Analyst.
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
J. J. COSTIGAN, ACTING INSPECTOR.												
409	As guaranteed	1·65	2 0	6 0	2·0	1·0	9·0	8·0	2·0	....	51356	Deficiency in phosphoric acid.
	As found.....	....	1·24	2 99	3·14	1 13	7 26	6·13	3·48	....	.....	Meets guarantee in value.
406	As guarauteed	0·82	1·0	6·0	2·0	1·0	9·0	8·0	2 0	....	51357	
	As found.....	.....	1·60	5·88	1·80	2 22	9·90	7·68	3·11	..	.....	Meets guarantee.
335	As guaranteed	0·82	1·0	4·0	2·0	1·0	7·0	6·0	6·0	.....	51358	
	As found.....	.....	1·30	5 25	0·55	1 08	6·88	5·80	5·81	... ..	.....	"
253	As guaranteed	...	...	.....	13·5	.....	18·0	.....	.....	.....	51359	
	As found.....	.....	.....	.....	14 63	2 90	17·53	14 63	...	87·5	.....	"
411	As guaranteed	2·47	3 0	6·0	2·0	1·0	9·0	8 0	4·0	.....	51360	Low in nitrogen and potash.
	As found..	.....	1·00	7·15	2·21	1·74	11·10	9·36	2·36	.....	.....	
409	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	2·0	....	51361	
	As found.. ...	....	2 50	3·85	4·40	1·85	10·10	8 25	2·39	.....	....	Meets guarantee.
402	As guaranteed	.....	.. ...	6·0	4·0	1 0	11·0	10·0	2·0	.....	51362	
	As found..	...	..	7·03	2·73	2·32	12·08	9·76	3·29	.....	.....	"
84	As guaranteed	.....	4 0	...	....	....	9·0	....	5·0	.....	51363	
	As found.....	.....	4·30	.....	10·03	2·75	12·78	10·03	5·45	.....	.....	"
J. A. RICKEY, INSPECTOR.												
379	As guaranteed	0·82	1·0	6·0	2 0	1·0	9·0	8·0	2·0	.....	51768	
	As found.....	....	1·20	6·40	2 35	1·35	10·10	8·75	2.67	.....	.....	Meets guarantee.
392	As guaranteed	2 06	2·5	6 0	2 0	1·0	9·0	8·0	3·0	.....	51769	
	As found.....	.....	2·40	6 30	2·23	1·22	9·75	8·53	2·72	.....	.....	"
394	As guaranteed	3·29	4·0	6·0	2·0	1·0	9·0	8·0	7·0	.....	51770	
	As found ..	... .	3·80	6·15	2·39	1·09	9·63	8 54	7·22	.....	. ...	"
188	As guaranteed	2·06	2·5	6·0	2·0	1·0	9 0	8·0	1·5	. ....	51771	
	As found.....	.....	2·40	5·00	3·02	1·28	9·30	8·02	2·38	.....	.....	
743	As guaranteed	3·29	4·0	4 0	2 0	1·0	7·0	6 0	10 0	.....	51772	
	As found.....	.....	4·20	4·96	2·04	1·09	8 00	7·00	9·75	.....	.....	
383	As guaranteed	0·82	1 0	6·0	2 0	1·0	9·0	8·0	4·0	.....	51773	
	As found...	.....	1·20	7·50	1·23	0·95	9·68	8·73	4·59	.....	.....	"
382	As guaranteed	0·82	1·0	3·0	1·0	1·0	5·0	4·0	8·0	.....	51774	
	As found.....	....	1·20	2·32	2·27	1·11	5·70	4·59	8 42	... ..	.....	"
234	As guaranteed	1·65	2·0	6 0	2·0	1·0	9 0	8 0	4·0	.....	51775	
	As found.....	...	2·00	5·80	3·20	1·38	10·38	9·00	4·50	.....	.....	"
738	As guaranteed	0·82	1·0	6·0	2·0	1·0	9·0	8·0	2·0	.....	51776	
	As found..	.....	1·20	6·55	2·77	0·88	10·20	9·32	2·50	.....	.....	"
737	As guaranteed	.....	.... .	10·0	2 0	1 0	13 0	12·0	5·0	.....	51777	
	As found.....	.. .	.....	10·88	1·20	1·07	13 15	12 08	5·42	.....	.....	"
739	As guaranteed	0·82	1·0	7·0	2·0	1·0	10·0	9·0	3·0	.....	51778	
	As found.....	... ..	1·00	7·83	2·59	0 68	11·10	10·42	3·21	.....	.....	"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report. (Is not an expression of opinion.)
DISTRICT OF OTTAWA—								
1913.								
Apr. 18	Victor	51779	Cap. Chem. and Fert. Co., Buckingham.	3 lbs.	Nil.	Vendors		
" 18	Reliance	51780	"	3 "	"	"		
" 18	Royal Canadian	51781	"	3 "	"	"		
" 18	Eureka Tobacco	51782	"	3 "	"	"		
" 18	Potato Special	51783	"	3 "	"	"		
" 18	Corn Special	51784	"	3 "	"	"		
" 18	Capleton	51785	"	3 "	"	"		
" 18	Monarch	51786	"	3 "	"	"		
" 21	Sure Growth Manure	51787	K. McDonald & Sons, Ottawa.	3 "	"	The W. A. Freeman Co., Ltd., Hamilton. Mfrs.		
" 21	Pure Bone Meal	51788	"	3 "	"	"	"	
" 21	Bone and Potash	51789	"	3 "	"	"	"	
" 21	Celery and Early Veg. Manure	51790	"	3 "	"	"	"	
DISTRICT OF KINGSTON—								
Apr 22	Special Potash Mixture	57301	John Gunyo, Brighton.	3 lbs.	10	Am. Agr. Chem. Co., Buffalo.		
" 22	Bradley's B. D. SeaFowlGuano	57302	"	3 "	10	"		
" 22	High Grade Potash Compound	57303	"	3 "	10	"		
" 22	Crockers New York Special Phosphate	57304	"	3 "	10	"		
" 22	Bradley's Potato Fertilizer	57305	"	3 "	10	"		
" 22	Bradley's Complete Man. for Potatoes and Veg.	57306	"	3 "	10	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water	Reverted or Citrate Soluble.	Insoluble	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.												
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
83	As guaranteed		2·0					7·0	3·0		51779	
	As found		2·00		6·12	3·66	9·78	6·12	3·20			Meets guarantee nearly in value.
86	As guraanteed		2·0				6·0		2·0		51780	
	As found		2·40		7·23	1·70	8·93	7·23	2·70			Meets guarantee.
84	As guaranteed		4·0					9·0	5·0		51781	
	As found		4·70		8·14	2·46	10·60	8·14	5·47			"
85	As guaranteed		3·0					5·0	4·0		51782	
	As found		3·00		6·28	1·90	8·18	6·28	3·81			"
336	As guaranteed		2·0					6·0	8·0		51783	
	As found		2·26		7·24	2·01	9·25	7·24	6·54			"
82	As guaranteed		1·0				7·0		3·0		51784	
	As found		1·20		9·15	1·98	11·13	9·15	3·00			"
337	As guaranteed							7·0			51785	
	As found				6·36	3·72	10·08	6·36				"
857	As guaranteed		1·0					8·0	8·0		51786	
	As found		3·70		7·66	1·34	9·00	7·66	10·06			"
144	As guaranteed	2·89	3·5	5·0	3·0	0·25	8·25	8·0	3·0		51787	
	As found		3·30	3.45	6·04	1·81	11·30	9·49	4·73			"
146	As guaranteed	2·47	3·0		20·0	1·0	21·0	20·0			51788	Guarantee of available phosphoric acid unreasonably high. Meets guaranteed value.
	As found		5·10		12·45	8·75	21·20	12·45				
147	As guaranteed		2·0					9·0	6·0		51789	
	As found		2·20		8·34	1·41	9·75	8·34	8·52			Meets guarantee.
148	As guaranteed	4·12	5·0	5·5	3·5	0·25	9·25	9·0	5·0		51790	
	As found		5·10	2·48	4·65	1·35	8·48	7·18	8·27			"

JAS. HOGAN, INSPECTOR.

181	As guaranteed	0·82	1·0	7·0	2·0	1·0	10·0	9·0	7·0		57301	
	As found		1·25	6·95	2·43	1·17	10·55	9·38	7·38			Meets guarantee
188	As guaranteed	2·06	2·5	6·0	2·0	1·0	9·0	8·0	1·5		57302	
	As found		2·65	6·13	1·57	1·45	9·15	7·70	1·83			"
182	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	10·0		57303	
	As found		2·20	3·10	4·80	1·55	9·45	7·90	10·84			"
192	As guaranteed			8·0	2·0	1·0	11·0	10·0	8·0		57304	
	As found			6·73	2·66	1·54	10·93	9·39	8·89			"
302	As guaranteed	2·06	2·5	6·0	2·0	1·0	9·0	8·0	3·0		57305	
	As found		2·57	3·70	4·29	1·31	9·30	7·99	3·69			"
294	As guaranteed	3·29	4·0	6·0	2·0	1·0	9·0	8·0	7·0		57306	
	As found		4·20	5·85	2·77	1·33	9·95	8·62	7·28			"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF
1913.								
April 22	Sure Growth Manure.	57307	Thompson Macdonald, Cobourg.	3 lbs.	10	W. A. Freeman Co., Ltd., Hamilton.	.....	.....
	Potato Manure.	57308	"	3 "	10	"	.....	.....
								DISTRICT OF TORONTO—
Mar. 17	Gunn's Shur-Crop General Garden No. 9.	57060	Gunn's Ltd., West Toronto.	3 lbs.	15	Vendors	.....	.....
" 17	Gunn's Shur-Crop Wheat Spec. No. 8.	57061	"	3 "	15	"	.....	.....
" 17	Gunn's Shur-Crop Tobacco Producer No. 1.	57062	"	3 "	15	"	.....	.....
" 17	Gunn's Shur-Crop Corn Manure No. 4.	57063	"	3 "	15	"	.....	.....
" 17	Gunn's Shur-Crop Bean Grower No. 6.	57064	"	3 "	15	"	.....	.....
" 18	Harab No. 1 Potato Special.	57065	Harris Abattoir Company, Ltd., Toronto.	3 "	15	"	.....	.....
" 18	Harab No. 6 Cereal and Corn Ferter.	57066	"	3 "	15	"	.....	.....
" 18	Harab No. 7 Potash Compound.	57067	"	3 "	15	"	.....	.....
" 18	Harab No. 12 Lambton Special.	57068	"	3 "	15	"	.....	.....
" 18	Harab No. 13 Farmer's Special.	57069	"	3 "	15	"	.....	.....
" 19	Harab No. 2 General Garden.	57070	"	3 "	15	"	.....	.....
" 19	Harab No. 5 Orchard.	57072	"	3 "	15	"	.....	.....
" 19	Harab No. 15 Fall Wheat Special.	57073	"	3 "	15	"	.....	.....
" 19	Harab No. 2 N. B. Potato Special with 10 p.c. Potash.	57074	"	3 "	15	"	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
KINGSTON—*Concluded.*												
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
144	As guaranteed	2·89	3·5	5 0	3 0	0·25	8·25	8·0	3·0	. .	57307	
	As found.		3·10	4·08	6·14	1·88	12·10	10·22	4·67			Meets guarantee.
145	As guaranteed	2·47	3·0	5·0	3·0	0·25	8·25	8·0	5 0		57308	
	As found		2·50	4·58	6·28	2·32	13·18	10·86	4·19			"
H. J. DAGER—INSPECTOR.												
619	As guaranteed	3·0	3·64	5·0				5·0	6·0		57060	
	As found		3·50	1·00	7·08	1·32	9·40	8·08	7·16			Meets guarantee.
618	As guaranteed	2·0	2 40	9·0				9·0	2·0		57061	
	As found		1·93	6·68	2·58	2·12	11·38	9·26	1·94			"
611	As guaranteed	3·0	3·64	8·0				8·0	8·0		57062	
	As found		3·32	3·83	5·38	2·22	11·43	9·21	8·58			"
614	As guaranteed	2 0	2·40	9·0				9·0	5·0		57063	
	As found		2·40	6·08	2·30	2·00	10·38	8 38	6·10			"
616	As guaranteed	2 0	2·40	7·0				7·0	8·0		57064	
	As found		2·20	3·90	4·30	1·70	9 90	8·20	8 82			"
471	As guaranteed	3·0	3·64				6·0		8·0		57065	
	As found		3·60				8·63		8·20			"
701	As guaranteed	2 0	2·40				9 0		3·0		57066	
	As found		2·50				9·43		3·06			"
476	As guaranteed	2·0	2·40				7·0		8·0		57067	
	As found		2 40				7·63		9·52			"
652	As guaranteed	2 0	2·40				8·0		10·0		57068	
	As found		2·80				9·33		10 92			"
633	As guaranteed	1 0	1·2				8·0		5·0		57069	
	As found		1·25				8·60		4·74			"
472	As guaranteed	3 0	3·64				7·0		3·0		57070	
	As found		3·62				7·78		2·93			"
654	As guaranteed	1·0	1·2				8·0		8·0		57072	
	As found		1·40				8·75		7·84			"
663	As guaranteed	2·0	2 40				7·0		2·0		57073	
	As found		2·45				8·40		2·28			"
696	As guaranteed	3·0	3·64				7·0	6·0	10·0		57074	
	As found		2·90		7 24	0·94	8·18	7·24	10·27			"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF TORONTO—					
1913.								
Mar. 20	Gunn's Shur-Crop Blood & Bone Compound No. 15.	57075	Gunn's, Ltd., West Toronto.	3 lbs.	15	Vendors		
" 20	Gunn's Shur-Crop Fertilizer. Fine Steamed Bone No. 13.	57076	" "	3 "	15	"		
" 20	Gunn's Shur-Crop Potato & Celery Special No. 5.	57077	" "	3 "	15	"		
" 20	Green Bone Meal	57078	" "	3 "	15	"		No. reg. Number on Bag. Application has been made to Dept. for registration.
" 22	H. Brand Fertilizer.	57079	W. Harris & Co., Toronto.	3 "	15	"		Vendors said that application had been made to the Dept. for registration.
" 24	Cereal Fertilizer	57080	The Wm. Davies Co., Ltd., West Toronto.	3 "	15	"		
24	Sure Growth	57081	" "	3 "	15	"		
24	General Crop	57082	" "	3 "	15	"		
" 24	Grape and Small Fruit Special.	57083	" "	3 "	15	"		
24	Corn Special	57084	" "	3 "	15	"		
" 25	Basic Slag, A Quality.	57085	" "	3 "	15		The Cross Fert. Co., Ltd., Sydney, N.S.	
" 25	Tobacco Grower	57086	" "	3 "	15	Vendors		
" 25	Potato Grower	57087	" "	3 "	15	"		
" 25	Pure Bone Meal	57088	"	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total; including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total; Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinon of the Chief Analyst.
Continued.												
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. d.	p. c.		
657	As guaranteed	7·0	8·5	7·0	.			7·0	2·0	.....	57075	Meets guarantee
	As found.. ..	..	7·90	0·29	8·81	1·75	10·85	9·10	1·89	....		
623	As guaranteed	3·0	3·64	22·0	....	.	.	22·0	. .	.. ..	57076	Deficient in available phosphoric acid. Unreasonable claim; possibly an error in claim.
	As found.....	.. .	3·50	0·47	15·14	4·67	20·28	15·61		.....		
615	As guaranteed	2·0	2·4	8·0		.		8·0	10·0	.. .	57077	Meets guarantee.
	As found.. .	. ....	2·40	. .	8·51	1·99	10·50	8·51	10·04	.....		
....	.. . .	...	...	.	...	...	.....	...	...	....	57078	Not identified and apparently not registered.
.....	.... ..	....		...	11·85	11·78	23·63	11·85	....	.. ..		
(855)	As guaranteed	5·35	6·50	Trace.	7·02	5·35	12·37	7·02		.	57079	Meets guarantee.
	As found.. ...	.. .	7·30	....	7·86	4·27	12·13	7·86	..	. . .		
364	As guaranteed	2·06	2·5	6·0	3·0	2·0	11·0	9·0	2·0	..	57080	Meets guarantee.
	As found.. .	..	2·69	8·05	3·14	1·61	12·80	11·19	2·77	...		
671	As guaranteed	2·47	3·0	.....	.....	.	10·0	9·0	3·0	.....	57081	"
	As found.....	....	3·20	....	10·17	1·73	11·90	10·17	3·37	....		
249	As guaranteed	2·47	3·0	..	...	.	10·0	8·0	2·0	.....	57082	"
	As found.....	....	3·20	.....	8·20	1·15	9·35	8·20	2·09	.....		
675	As guaranteed	1·64	2·0	. ..	.....	. ..	9·0	8·0	10·0	.....	57083	"
	As found.....	.....	2·10	...	7·68	1·22	8·90	7·68	9·14	....		
669	As guaranteed	1·64	2·0	... ..	... .	.	9·0	8·0	2·0	.....	57084	"
	As found.. ...	..	2·00	.....	8·31	1·67	9·98	8·31	1·81	.....		
557	As guaranteed	.....	.....	.....	12·80	..	.....	.....	.....	.....	57085	"
	As found.. ...	....	.....	.....	13·45	0·60	14·05	13·45	.....	86·2		
369	As guaranteed	1·64	2·0	3·0	5·0	2·0	10·0	8·0	5·0	. ..	57086	"
	As found.,....	.....	3·70	2·94	6·62	1·32	10·88	9·56	6·84	.....		
670	As guaranteed	2·47	3·0	.....	.....	.....	7·0	6·0	10·0	....	57087	Low in potash, but fully up to total value.
	As found.. ...	.....	3·10	3·90	5·24	7·25	16·39	9·14	8·00	.....		
244	As guaranteed	3·29	4·0	.....	. .....	....	20·0	.. ..	.....	.....	57088	Meets guarantee.
	As found.. ..	.....	3·68	.. ..	12·05	11·53	23·58	12·05	... ..	... ..		

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF
1913.								
Mar. 25	Fine Steamed Bone.	57089	The Wm. Davies Co., Ltd., West Toronto.	3 lbs.	15	Vendors		
" 25	Bean and Pea Special.	57090	"	3 "	15	"		
" 26	Blood and Bone.	57091	"	3 "	15	"		
" 26	Hay and Meadow Special.	57092	"	3 "	15	"		
" 26	Sugar Beet Special.	57093	"	3 "	15	"		
" 26	Wheat Phosphate.	57094	"	3 "	15	"		
" 26	Potato Special..	57095	"	3 "	15	"		
April 28	Harab No. 11, Clover and Hay.	57096	The Harris Abattoir Co., Ltd., Toronto.	3 "	15	"		
" 28	Harab No. 3, Early Vegetable.	57097	"	3 "	15	"		
" 28	Harab No. 14, Tobacco Special.	57098	"	3 "	15	"		
" 28	Harab No. 4, Gardeners Special.	57099	"	3 "	15	"		
" 28	Harab Complete Fert., with 10 p.c. Potash.	57100	"	3 "	15	"		
" 30	Pure Ground Blood.	57196	"	3 "	15	"		
" 30	Harab No. 10, Blood and Bone.	57197	"	3 "	15	"		
" 30	Harab No. 8, Fine Steamed Bone.	57198	"	3 "	15	"		
May 1	GunnsShur-Crop Berry Special, No. 12.	57199	Gunn's Ltd., West Toronto.	3 "	15	"		

SESSIONAL PAPER No. 14

FIRTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Phosphoric Acid per cent. Reverted or Citrate Soluble.	Phosphoric Acid per cent. Insoluble.	Phosphoric Acid per cent. Total.	Phosphoric Acid per cent. Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
TORONTO—*Continued.*												
366	As guaranteed	4·93	6·0	.....	.....	.....	22·0	.....	.....	...	57089	
	As found.....	....	6·70	....	16·88	7·15	24·03	16·88	.....	...	.....	Meets guarantee
668	As guaranteed	1·0	1·0	..	.....	.....	9·0	8·0	5·0	....	57090	
	As found.....	.....	1·00	3·85	5·29	14·98	24·12	9·14	6·83	.....	.....	Meetsguarantee. Great excess of phosphoric acid. Apparently mistaken indentity of brand
678	As guaranteed	4·93	6·0	.....	.....	.....	13·0	10·0	.....	.....	57091	
	As found. ...	.....	7·30	.....	10·97	3·53	14·50	10·97	1·45	.....	.....	Meets guarantee
673	As guaranteed	3·3	4·0	.....	.....	.....	6·0	5·0	3·0	.....	57092	
	As found..		3·60	.....	6·87	1·06	7·93	6·87	4·62	.....	.....	"
667	As guaranteed	1·64	2·0	.....	.....	.....	11·0	10·0	5·0	....	57093	
	As found.....	.....	2·20	.....	11·38	7·35	18·73	11·38	5·70	.....	.....	"
666	As guaranteed	1·64	2·0	.....	.....	.....	11·0	10·0	2·0	.....	57094	
	As found.....	.....	1·80	.....	9·24	1·84	11·08	9·24	2·73	.....	.....	"
360	As guaranteed	3·3	4·0	1·0	5·0	2·0	8·0	6·0	3·0	.....	57095	
	As found	.....	4·40	1·81	6·59	1·05	9·45	8·40	9·15	.....	.....	Meets guarntee Excess potash. Possible mistaken identity.
479	As guaranteed	6·0	7·28	.....	.....	.....	3·0	....	5·0	.....	57096	Meets guarantee
	As found.....	.....	7·00	.....	.....	.....	5·91	.....	4·31	.....	.....	
473	As guaranteed	4·0	4·8	.....	.....	.....	6·0	.....	4·0	.....	57097	"
	As found	.....	4·90	.....	.....	.....	7·58	.....	3·90	.....	.....	
482	As guaranteed	3·0	3·6	.....	....	.....	8·0	....	6·0	....	57098	"
	As found.....	.....	3·70	.....	.....	.....	9·53	.....	6·89	.....	.....	
655	As guaranteed	5·0	6·1	.....	.....	.....	6·0	.....	8·0	.....	57099	Deficiency in potash.
	As found.....	.....	5·71	.....	....	....	7·58	.....	4·86	.....	.....	
695	As guaranteed	....	4·0	.....	.....	.....	7·0	6·0	10·0	.....	57100	"
	As found.....	.....	4·30	.....	7·14	1·11	8·25	7·14	7·53	.....	.....	
653	As guaranteed	11·0	13·35	.....	.....	.....	2·0	.....	.....	.....	57196	Deficient in nitrogen.
	As fonnd.....	.....	11·65	.....	.....	.....	1·14	.....	.....	.....	.....	
478	As guaranteed	7·0	8·5	.....	.....	.....	10·0	.....	.....	.....	57197	
	As found.....	.....	8·13	.....	.....	.....	9·25	.....	.....	.....	.....	Meets guarantee
293	As guaranteed	3·5	4·0	.....	.....	.....	22·0	.....	.....	...	57198	Below guarantee in phosphoric acid.
	As found.....	....	3·48	.....	13·99	4·67	18·66	13·99	.....	.....	.....	
622	As guaranteed	1·0	1·2	8·0	.....	.....	.....	8·0	8·0	.....	57199	
	As found.....	.....	1·2	4·33	3·42	0·93	8·68	7·75	8·17	.....	.....	Meetsguarantee.

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF
1913.								
May 1	GunnsShur-Crop Bowling Green and Lawn Special.	57200	Gunn's Ltd., West Toronto.	3 lbs.	15	Vendors.		
" 1	GunnsShur-Crop Forcing Grtn, No. 7.	57405	"	3 "	15	"		
" 1	GunnsShur-Crop Sugar Beet Special, No. 2.	57406	"	3 "	15	"		
" 1	GunnsShur-Crop Early Vegetable, No. 10.	57407	"	3 "	15	"		
" 1	GunnsShur-Crop Pulverized Steamed Bone, No. 14.	57408	"	3 "	15	"		
								DISTRICT OF HAMILTON
April 9	Bone Meal	57167	Ward and Kelly, Brantford, Ont.	3 lbs.	15	International Agr. Co., Buffalo, N. Y.		
" 9	Wheat Special	57168	"	3 "	15	"		
" 9	Extra Phosphate and Potash.	57169	"	3 "	15	"		
" 9	Chapman's Tomato Special.	57170	"	3 "	15	"		
" 9	Fruit and Vine	57171	The Brant Seed Co., Brantford.	3 "	15	Shaal Sheldon Fert. Co., Buffalo.		
" 9	Grass and Grain	57172	"	3 "	15	"		
" 9	Stone Brand, XXX Potato Fertilizer.	57173	E. Pitts, Paris	3 "	15	Wm. Stone & Sons, Ltd., Ingersoll.		
" 10	Stone Brand Grain and Root Fertilizer.	57174	E. Pitts, Paris	3 "	15	Wm. Stone & Sons, Ltd., Ingersoll.		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total; including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
TORONTO—*Concluded.*												
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
613	As guaranteed	5·0	.....	6·0	.....	.....	.....	6·0	7·0	.....	57200	
	As found	.....	5·95	5·43	1·78	0·79	8·00	7·21	7·99	.....	.....	Meets guarantee.
617	As guaranteed	5·0	6·07	8·0	.....			8·0	7·0	.....	57405	
	As found.....	..	4·06	6·45	1·56	0·94	8·95	8·01	7·13	.....	.....	Low in nitrogen. Explained as sampling of an incompleted mix
612	As rguaanteed	2·0	2·4	6·0	.....	.....	.....	6·0	9·0	.....	57406	
	As found....	....	2·15	2·95	3·51	0·99	7·45	6·46	8·55	.....	...	Meets guarantee.
620	As guaranteed	4·0	4·86	6·0	.....	.....	.....	6·0	7·0	.....	57407	
	As found.....	..	3·0	3·70	5·23	1·20	10·13	8·93	6·72	.....	.....	Below guarantee slightly.
624	As guaranteed	3·0	3·61	22·0	.....	.....	.....	22·0	.....	.....	57408	
	As found.....	.....	4·36	0·44	13·71	6·10	20·25	14·15	.....	.....	.....	Below guarantee in phosphoric acid. Claim for available is unreasonable. Possible error in the claim.
H. J. DAGER, ACTING INSPECTOR												
648	As guaranteed	2·40	3·0	.....	.....	.....	22·0	.....	.....	.....	57167	
	As found.	.....	3·0	.....	13·16	7·37	20·53	13·16	.....	..	.....	Meets guarantee, nearly.
638	As guaranteed	2·0	2·5	6·0	2·0	1·0	9·0	8·0	1·5	.....	57168	
	As found.		2·50	4·50	3·37	2·01	9·88	7·87	2·65	.....	.....	Meets guarantee.
636	As guaranteed	.....		8·0	2·0	1·0	11·0	10·0	8·0	.....	57169	
	As found..... ..	....		8·20	1·52	1·33	11·05	9·72	8·13	.....	.....	"
644	As guaranteed	1·60	2·0	6·0	2·0	1·0	9·0	8·0	10·0	... ..	57170	
	As found.....	.....	2·50	5·85	2·60	1·55	10·0	8·45	9·82	... ..	.....	"
383	As guaranteed	0·82	1·0	6·0	2·0	1·0	9·0	8·0	4·0	.....	57171	
	As found.....	..	1·60	4·85	4·97	1·96	11·78	9·82	5·24	.....	.....	"
356	As guaranteed	1·23	1·50	6·0	2·0	1·0	9·0	8·0	7·0	....	57172	
	As found		1·90	5·60	3·06	1·24	9·90	8·66	7·84	.....	.....	"
546	As guaranteed	1·64	2·0	6·50	1·50	1·25	9·25	8·0	6·0	.....	57173	
	As found.....	.....	2·0	4·10	5·20	1·63	10·93	9·30	6·14	.....	.....	"
545	As guaranteed	1·64	2·0	6·50	1·50	1·25	9·25	8·0	2·0	.....	57174	
	As found	..	2·15	4·33	5·18	1·64	11·15	9·51	2·07	.....	.....	"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF HAMILTON—		
1913.								
April 11	Crocker's Practical Potato Fertilizer.	57175	Howard L. Knox, Lynden.	3 lbs.	15	The Am. Agr. Chem. Co., N.Y.		
" 11	Crocker's Wheat and Corn Fertilizer.	57176	" "	3 "	15	"		
" 11	Crocker's Best Potash Fertilizer.	57177	" "	3 "	15	"		
" 11	Crocker's New York Special Phosphate.	57178	" "	3 "	15	"		
" 15	Bowker's Market Garden Fertilizer.	57179	E. W. Moore & Son, Dunnville.	3 "	15	Bowker Fert. Co., Boston and N.Y.		
" 15	Farm and Garden Phosphate.	57180	" "	3 "	15	"		
" 15	Crocker's Complete Manure.	57181	H. Bartlett, Dunnville.	3 "	15	The Am. Agr. Chem. Co., N.Y.		
" 15	Ideal Wheat and Corn.	57182	B. L. Edgecombe, Dunnville.	3 "	15	The International Agr. Co., Buffalo, N.Y.		
" 15	Sugar Beet Grower.	57183	" "	3 "	15	"		
" 15	Fish Guano....	57184	" "	3 "	15	"		
" 15	Celery and Potato Special.	57185	" "	3 "	15	"		
" 15	Farmers' Choice.	57186	" "	3 "	15	"		
" 16	Bradley's B.D. Sea Fowl Guano.	57187	Titterington Bros., St. Catharines.	3 "	15	The Am. Agr Chem. Co., N.Y.		
" 19	Celery and Early Vegetable Manure.	57188	The W. A. Freeman Co., Ltd., Hamilton.	3 "	15	Vendors.		
" 19	Potato Manure..	57189	"	3 "	15	"		
" 19	Sure Growth Manure.	57190	"	3 "	15	"		
" 19	Lawn Fertilizer.	57191	"	3 "	15	"		
" 19	Ontario Manure.	57192	"	3 "	15	"		
" 19	Pure Bone Meal	57193	"	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.										Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.					Potash.	Fineness.	No. of Sample.	
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
198	As guaranteed	0·82	1·0	3·0	1·0	1·0	5·0	4·0	8·0	..	57175	
	As found	.. ..	1·11	3·25	0·88	0·90	5·03	4 13	7 79	.. ..	..	Meets guarantee.
195	As guaranteed	2·06	2·50	6 0	2·0	1·0	9·0	8·0	1·5	..	57176	
	As found	.....	2·55	4·60	3 17	1·31	9·08	7·77	2 01	.. ..	.....	"
194	As guaranteed	1·65	2 0	6·0	2·0	1·0	9·0	8·0	10·0	.....	57177	
	As found.....	.....	2·05	5·30	3·11	1·64	10·05	8·41	10·58	.....	.....	"
192	As guaranteed	.....	.....	8·0	2·0	1·0	11·0	10·0	8·0	.....	57178	
	As found.....	.....	.....	7·38	2·60	0·80	10·78	9·98	7·42	.....	.....	"
578	As guaranteed	2·47	3·0	4·0	2·0	1·0	7·0	6·0	10·0	.....	57179	Low in potash, but value compensated.
	As found.....	...	4 10	3·70	4·52	1·78	10 00	8·22	8·01	.....	.....	
577	As guaranteed	1 65	2 0	6·0	2·0	1·0	9·0	8·0	2 0	.....	57180	
	As found.....	.. ..	2·10	2 28	5·40	2·07	9·75	7·68	2 20	.....	.....	Meets guarantee.
380	As guaranteed	0·82	1·0	6·0	2·0	1·0	9 0	8·0	4·0	.....	57181	
	As found. ...	.....	1 00	6·70	0·87	1·18	8·75	7·57	4·04	.....	.....	"
641	As guaranteed	1·60	2·0	7·0	2·0	1·0	10·0	9·0	5·0	.. ..	57182	
	As found.....	.. ..	2·90	7·95	0·99	1·81	10·75	8·94	5·58	.. ...	.....	"
640	As guaranteed	1·60	2·0	6 0	2·0	1·0	9 0	8·0	4·0	.. ...	57183	
	As found	.....	1·90	5·30	3·02	1·31	9 63	8·32	4 79	.....	.. ..	"
637	As guaranteed	0·80	1 0	7·0	2·0	1·0	10·0	9·0	2·0	.....	57184	
	As found.....	.....	1·10	5·80	3·20	1·23	10·23	9·00	3·44	.....	.....	"
643	As guaranteed	1·60	2 0	6·0	2·0	1·0	9·0	8·2	10·0	.... .	57185	
	As found.....	.....	1·95	6 00	2·40	1·10	9·50	8·40	9·60	.....	.....	"
639	As guaranteed	0·80	1·0	6·0	2·0	1·0	9 0	8·0	5·0	... ..	57186	
	As found. ...	.....	1·10	4·40	3·37	1·73	9 50	7 77	5·02	.....	.....	"
188	As guaranteed	2·06	2·5	6·0	2·0	1·0	9·0	8·0	1·5	.....	57187	
	As found.....	.... .	2·56	4·78	3·04	1·23	9 05	7·82	2 31	.....	.....	"
148	As guaranteed	4·12	5·0	5·5	3·5	0·25	9·25	9·0	5·0	.. .	57188	
	As found.....	....	5·61	7·63	2·77	1·13	11·53	10·40	5·78	.....	.....	"
145	As guaranteed	2·47	3·0	5·0	3·0	0·25	8·25	8·0	5·0	.....	57189	
	As found.....	...	3·35	4·25	7·01	2 07	13·33	11·26	6·87	....	.....	"
144	As guaranteed	2·89	3·5	5·0	3·0	0·25	8·25	8·0	3·0	.....	57190	
	As found.....	.....	2·40	4·05	6·49	1·71	12·25	10 54	3·13	.....	.....	"
157	As guaranteed	2·47	3·0	5·50	3·50	0·25	9·25	9·0	4·0	.....	57191	
	As found.....	.....	2 13	10·05	1·13	1·07	12·25	11·18	4·82	....	....	"
374	As guaranteed	....	.....	5·50	2·50	0·50	8·50	8·0	5·0	.....	57192	
	As found. ...	.....	....	7·25	1·39	0·76	9·40	8·64	4·78	.....	....	"
146	As guaranteed	2·47	3 0	.. ....	20·0	1·0	21·0	20·0	.....	.....	57193	
	As found.....	....	5·29	.....	12·95	8·85	21·80	12·95	.....	....	.. .	Essentially meets guarantee. Excessive claim for available phosphoric acid

Continued.

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer	Furnisher.	
								DISTRICT OF
1913.								
April 24	Bone and Potash	57194	The W. A. Freeman Co., Ltd., Hamilton.	3 lbs.	15	Vendors		
" 24	Tobacco Manure	57195	"	3 "	15	"		
								DISTRICT OF WINDSOR—
April 15	Harab Potash Compound.	47987	M. J. Smith, Chatham, Ont.	3 jars.	Nil.	Harris Abattoir Co., Toronto.		
" 15	Davies Corn Special.	47988	F. W. Chartei's, Chatham.	3 "	"	Davies Co., Toronto.		
" 15	Davies Tobacco Special.	47989	"	3 "	"	"		
" 15	Cereal and Corn	47990	M. J. Smith, Chatham, Ont.	3 "	"	Harris Abattoir Co., Toronto.		
" 15	Potato Special	47991	"	3 "	"	"		
" 15	Farmers Special.	47992	"	3 "	"	"		
" 15	Tobacco Special.	47993	"	4 "	"	"		
" 15	Davies Sugar Beet Special.	47994	F. W. Chartei's, Chatham.	3 "	"	Davies Co., Toronto.		
" 15	Davies Sure Growth.	47995	"	3 "	"	"		
" 15	Chapmans Tomato Special.	47996	J. D. Soutar, Chatham.	3 "	"	Buffalo Fert. Co., Buffalo.		
" 15	Ideal	47997	"	3 "	"	"		
" 15	Fish Guano	47998	"			"		
" 16	Bone, Blood and Potash.	54801	Wm. Stone & Sons, Ingersoll.	3 "	"	Vendors		
" 16	Garden Truckers	54802	"	3 "	"	"		
" 16	Fodder Special.	54803	"	3 "	"	"		
" 16	Tobacco Manure	54804	"	3 "	"	"		
" 16	Grain and Root.	54805	"	3 "	"	"		
" 16	Potato and Beet.	54806	"	3 "	"	"		
" 16	Fruit Special	54807	"	3 "	"	"		
" 16	Potato Manure	54808	A. Hasting & Sons, Woodstock.	3 "	12½	W. A. Freeman Co., Hamilton		
" 16	Sure Growth	54809	"	3 "	12½	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total; including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total; Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
HAMILTON—*Concluded.*												
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
147	As guaranteed	1 65	2 0	5 50	3·50	0·25	9·25	9 0	6·0	....	57194	Meets guarantee.
	As found.....	.	2 76	3 88	6·32	1·88	12·08	10·20	5 12	.....	.....	
149	As guaranteed	2·47	3·0	5·0	2·0	0·25	7·25	7·0	5·0	...	57195	Meets guarantee.
	As found. ...	. .	4·51	4·30	5·59	1·46	11·35	9 89	4·22	....	.....	
JNO. TALBOT, INSPECTOR.												
476	As guaranteed	2·0	2.4	.	....	.	7·0	....	8·0	. .	47987	
	As found. .	.	2 25	.	....	.....	8·93	. .	6·49	.....	. .	Meets guarantee.
669	As guaranteed	1·64	2 0	.....	.....	.....	9 0	8·0	2·0	. .	47988	
	As found. ...	. .	1·77	.....	7·78	1·27	9·05	7 78	1·17	.....	.....	Meets guarantee
369	As guaranteed	2 47	3 0	....	....	.....	10·0	8·0	6·0	. .	47989	nearly
	As found.....	.	4·5	....	9 65	2 00	11·65	9 65	6·00	....	.....	Meets guarantee.
701	As guaranteed	2 0	2·4	.....	.....	.....	9·0	.....	3·0	....	47990	
	As found.....	. ...	2·45	...	....	.....	9·38	...	3·21	.....	.....	"
471	As guaranteed	3 0	3·64	.....	.....	.....	6·0	...	8·0	....	47991	
	As found.....	.....	3·25	.....	7 74	2 29	10·03	7 74	9·00	.. ..	.....	"
633	As guaranteed	1·0	1·2	....	.....	.....	8·0	....	5 0	.....	47992	Low in potash
	As found.. .	..	1·22	.....	....		6·34	.....	3·00	.....	. .	and phosphoric acid.
482	As guaranteed	3 0	3·64	.....	....	.....	8·0	.....	6·0		47993	
	As found.....	.....	4·00	.....	.....	.....	7·78	...	8 31	...	....	Meets guarantee.
667	As guaranteed	1 64	2·0	...	.....	...	11 0	10·0	5·0	...	47994	
	As found.....	. .	2 20	.....	9·90	6 35	16·25	9·90	5·42	....	. .	"
674	As guaranteed	2 47	3 0	.....	.....	.....	10·0	9·0	3·0	....	47995	
	As found.....	.....	3 90	...	11·03	1 87	12·90	11·03	3·05	....	....	"
644	As guaranteed	1·60	2 0	6 0	2·0	1 0	9 0	8·0	10 0	..	47996	
	As found	. .	2·00	5·50	1·74	1 06	8 30	7·24	14·18	.....	....	"
641	As guaranteed	1·60	2·0	7·0	2·0	1·0	10 0	9 0	5·0	.....	47997	
	As found.....	.....	2·00	6·60	2·53	1·47	10·60	9·13	5·18	.....	..	"
637	As guaranteed	0·80	1 0	7·0	2·0	1 0	10 0	9·0	2 0	.....	47998	
	As found.....	...	1·20	5·50	3·74	1·91	11 15	9·24	2·58	....	....	"
544	As guaranteed	3·29	4·0	5·5	2·5	1·5	9 5	8 0	7·0	....	54801	
	As found.....	.. ..	3·40	4 50	5·75	1·50	11·75	10·25	6 67	....	....	"
543	As guaranteed	4·94	6·0	4·0	3 0	1·75	8·75	7·0	5·0	.... .	54802	
	As found... .	.....	6 00	3·15	5 87	0·81	9·83	9 02	5·01	....	.....	"
702	As guaranteed	0 82	1·0	... .	.....	1·0	10 0	9·0	2·0	. . .	54803	
	As found. ...	. .	0·95	.....	9·13	1·20	10·33	9·13	1·64	. . .	...	"
541	As guaranteed	2·47	3·0	5·5	1 5	1·25	8·25	7·0	4·0	.....	54804	
	As found....	...	3 00	3·28	3·53	0·92	7 73	6·81	4·64	.....	..	"
545	As guaranteed	1·64	2·0	6·5	1·5	1·25	9·25	8 0	2·0	.....	54805	
	As found. . .	....	1·90	4 38	3 89	1·18	9 45	8·27	2·03	.....	.....	"
709	As guaranteed	1·64	2·0	....	....	1 25	9 25	8·0	6·0	.....	54806	
	As found ...	.....	1·90	.....	8·08	1·42	9 50	8 08	5·30	.. .	.....	"
539	As guaranteed	1 61	2·0	6·5	1·5	1·25	9 25	8 0	10·0	.....	54807	
	As found.....	.....	2·30	5·73	3·01	1·11	9 85	8·74	9·33	.....	.....	"
145	As guaranteed	2 47	3 0	5·0	3·0	0.25	8·25	8·0	5·0	....	54808	
	As found.....	.....	2·50	4 40	5 60	2·15	12·15	10 00	4·82	.....	.....	"
144	As guaranteed	2 89	3·5	5·0	3·0	0·25	8·25	8·0	3 0	....	54809	
	As found.....	.. ..	2·70	3·00	6·48	2·45	11·93	9·48	2 79	.....	...	"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF WINDSOR—		
1915.								
April 16	Nitrate of Soda..	54810	A. Hastings & Son, Woodstock, Ont	3 jars.	25	W. A. Freeman Co., Hamilton.		No label. No reg. number
" 16	Bone Black.....	54811	A. Patrick. Woodstock, Ont.	3 "	Nil.	Mich. Carbon Wks., Detroit		Could not read reg. number.
" 21	Fodder Special..	54812	O'Brien Bros., St. Marys, Ont.	3 "	"	Wm. Stone & Sons, Ingersoll.		
" 21	Potato Brand...	54813	" ..	3 "	"	"		
" 21	Homestead Bean Special.	54814	Frank Standeaven, St. Marys, Ont.	3 "	"	Mich. Carbon Wks., Detroit		
" 21	A.1. Potash Fertilizer.	54815	" ..	3 "	"	"		
" 21	Bone Black.....	54816	" ..	2 "	"	"		
" 21	Davies Lawn Dressing.	54817	J. A. Andrew, Stratford.	3 "	10	Davies Co., Toronto.		
" 21	Bone Meal.. ...	54818	" ..	3 "	10	Nitrate Agencies Co., New-York.		No number.
" 22	Homestead Bone Black.	54819	Chas. Layton, Seaforth.	3 "	Nil.	Mich. Carbon Wks., Détroit		
" 22	Grain and Root	54820	Ford & McLeod, Clinton.	3 "	"	Wm. Stone & Sons, Ingersoll.		
" 23	Tomato Special.	54821	Geo. Philp, jr., St. Thomas.	3 "	"	Buffalo Fert. Co., Buffalo.		
" 23	High Grade Manure.	54822	" ..	3 "	"	"		
" 23	Celery and Potato Special.	51823	" ..	3 "	"	"		
" 23	Dissolved Phosphate.	54824	" ..	3 "	"	"		
" 24	Potato Manure..	54825	A. M. Hamilton, London, Ont.	3 "	10	W. A. Freeman Co., Hamilton.		
" 24	Canadian Manure.	54826	"	3 "	10	"		
" 24	Sure Growth....	54827	"	3 "	10	"		
						DISTRICT OF ROCKY MOUNTAINS—		
April 23	A. Fertilizer....	49877	Brackman Ker M. Co., Nelson, B.C.	3 lbs.	15	Victoria Chem. Co., Victoria, B.C.		
" 23	B. "	49878	"	3 "	15	"		
" 23	C. "	49879	"	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
(153)	As guaranteed	15·0	18·0								54810	Meets guarantee as assumed.
	As found		18·40									
(213)	As guaranteed	2·06	2·5	6·0	2·0	1·0	9·0	8·0	1·5		54811	"
	As found		2·60	7 30	1·99	1 41	10·79	9 29	1·96			
702	As guaranteed	0·82	1·0			1 0	10 0	9·0	2·0		54812	Meets guarantee.
	As found		1·11		9 22	1 43	10·65	9·22	2·12			
546	As guaranteed	1·64	2·0	6·5	1·5	1·25	9·25	8·0	6·0		54813	
	As found		2·72	4 05	5·93	3 10	13·08	9·98	6·68			
525	As guaranteed	1 65	2·0	6·0	2·0	1·0	9 0	8 0	3·0		54814	"
	As found		2·26	6·88	1·51	1·64	10 03	8·39	3·70			
526	As guaranteed	0 82	1·0	6 0	2 0	1·0	9·0	8·0	3·0		54815	"
	As found		1·63	6·75	2 19	1·36	10·30	8·94	3·97			
213	As guaranteed	2 06	2·5	6 0	2 0	1·0	9·0	8·0	1·5		54816	"
	As found		2·64	6·88	1·45	1·62	9·95	8·33	1·87			
361	As guaranteed	3·3	4·0	1·0	5 0	2 0	8·0	6·0	3·0		54817	"
	As found		4·44	1·02	6·20	1·78	9.0	7·22	3 37			
											54818	Not identified, and apparently not registered.
	As found		3·25		14·20	5·80	20·00	14·20				
213	As guaranteed	2·06	2·5	6·0	2·0	1·0	9·0	8·0	1·5		54819	Meets guarantee.
	As found		2·55	6·03	3 11	1·81	10·95	9·14	1·77			
545	As guaranteed	1·64	2 0	6·5	1·5	1 25	9·25	8·0	2·0		54820	"
	As found		2·55	4 80	5·08	2·20	12·08	9·88	2·76			
644	As guaranteed	1·60	2 0	6·0	2·0	1 0	9·0	8·0	10·0		54821	"
	As found		2·00	6·60	2·08	1 00	9·68	8·68	9·82			
647	As guaranteed	3·3	4·0	5·0	2·0	1 0	8·0	7·0	10·0		54822	"
	As found		3·50	6·23	2·15	0·77	9·15	8·38	11·00			
643	As guaranteed	1 60	2 0	6·0	2·0	1·0	9 0	8·0	10·0		54823	"
	As found		2·00	5·83	3·97	1 53	11·33	9·80	9 18			
634	As guaranteed			12 0	2·0	1 0	15·0	14·0			54824	"
	As found			11·80	1·71	2·57	16·08	13·51				
145	As guaranteed	2·47	3 0	5·0	3·0	0·25	8·25	8·0	5·0		54825	"
	As found		4·54	3·95	5·37	2·08	11·40	9·32	6 18			
375	As guaranteed	2 47	2·5	5 5	2·5	0 50	8·50	8·0	1·5		54826	"
	As found		2·17	5·63	3·72	1·58	11·03	9·35	2·38			
144	As guaranteed	2·89	3·5	5·0	3·0	0·25	8·25	8 0	3·0		54827	"
	As found		1·39	3·80	3·48	1·12	8 40	7·28	4·55			

Concluded.

THOS. PARKER, INSPECTOR.

73	As guaranteed	4 0	4·85	10·0					7·0		49877	Meets guarantee.
	As found		3·39	10·18	1 09	0·76	12·03	11·27	8·81			
74	As guaranteed	3 5	4 25	10·0					11·0		49878	"
	As found		3 80	9·35	1·72	0·76	11·83	11·07	10·44			
75	As guaranteed			12·5					11·0		49879	Low in potash.
	As found			13·18	1 80	1·12	16·10	14·98	9·26			

BULLETIN No. 264—

Date of Collection.	Designation.	No. of Sample	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report. (Is not an expression of opinion.)
								DISTRICT OF ROCKY
1913.								
April 23	Nitrate of Soda..	49880	Brackman Ker M. Co., Nelson, B.C.	3 lbs.	15	Victoria Chem. Co, Victoria, B.C.	.....	.....
" 23	Sulphate of Potash.	49881	"	3 "	15	"	.....	.....
" 23	Muriate of Potash.	49882	"	3 "	15	"	.....	.....
" 23	Superphosphate of Lime.	49883	"	3 "	15	"	.....	.....
" 23	A. Fertilizer..	49884	Swift Canadian Co., Nelson, B.C.	3 "	25	Swift Canadian Co., Edmonton.	.....	.....
" 23	B. Fertilizer.....	49885	"	3 "	25	"	.....	.....
" 23	C. Fertilizer....	49886	"	3 "	25	"	.....	.....
" 23	A. Fertilizer....	49887	P. Burns & Co., Nelson, B.C.	3 "	15	P. Burns & Co., Calgary.	.....	.....
" 23	B. Fertilizer....	49888	P. Burns & Co., Nelson.	3 "	15	P. Burns & Co, Calgary.	.....	.....
" 23	C. Fertilizer..	49889	"	3 "	15	"	.....	.....
								DISTRICT OF VANCOUVER—
April 26	B. & K. Bone Meal.	53486	Brackman Ker M. Co., Vancouver, B.C.	3 liv.	Nil.	Vendors.....	.....	.....
" 26	Blood	53487	"	3 "	"	Vanc. Prince Rupert Meat Co., Vancouver, B.C.	.....	Not registered.
" 26	B. Fertilizer ..	53488	"	3 "	"	Vict. Chem. Co. Victoria, B.C.	.....	.....
" 26	Slag	53489	"	3 "	"	"	.....	Not registered.
26	Dried Blood ..	53490	Brown Bros., Vancouver, B.C.	3 "	"	P. Burns & Co, Vancouver, B.C.	.....	.....
" 28	A. Fertilizer ...	53491	Brackman & Ker, New Westminister, B.C.	3 "	"	Vict. Chem. Co. Victoria, B.C.	.....	.....
" 28	Nitrate of Soda.	53492	"	3 "	"	"	.....	.....
" 28	Superphosphate of Lime.	53493	"	3 "	"	"	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total; including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total; Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
MOUNTAINS—*Concluded.*												
77	As guaranteed	15·0	18·2	.....	.....	.....	.....	.....	.....	.....	49880	
	As found		18·20	.....	.....	.....	.....	.....	.....	.....	.....	Meets guarantee.
78	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50·0	.....	49881	
	As found	.....	.....	.....	.....	.....	.....	.....	49·82	.....	.....	"
79	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50·0	.....	49882	Nearly meets
	As found	.....	.....	.....	.....	.....	.....	.....	48·55	.....	.....	guarantee.
80	As guaranteed	.....	.....	16·0	.....	.....	.....	.....	.....	.....	49883	
	As found	.....	.....	19·18	.....	1·10	20·28	19·18	.....	.....	.....	Meets guarantee.
341	As guaranteed	4·12	5·0	6·87	.....	.....	.....	.....	12·0	.....	49884	Low in potash.
	As found	.....	5·9	trace.	5·60	2·00	7·60	5·60	9·58	.....	.....	
342	As guaranteed	4·52	5·50	7·32	.....	.....	.....	.....	9·0	.....	49885	Meets essential
	As found	.....	5·50	0·17	5·92	1·16	7·55	6·09	9·32	.....	.....	guarantee.
343	As guaranteed	4·93	6·0	7·78	.....	.....	.....	.....	6·0	.....	49886	
	As found	.....	6·12	0·42	7·47	2·81	10·70	7·89	7·37	.....	.....	"
430	As guaranteed	2·80	3·40	0·26	1·15	13·89	15·30	1·41	3·80	.....	49887	
	As found	.....	4·66	0·11	11·47	8·20	19·78	11·58	5·81	.....	.....	Meets guarantee.
431	As guaranteed	6·10	7·40	0·11	9·28	2·81	12·20	9·39	4·77	.....	49888	
	As found	.....	9·23	0·36	8·13	2·56	11·05	8·49	4·82	.....	.....	"
432	As guaranteed	5·51	6·81	0·86	3·07	6·67	10·60	3·93	5·71	.....	49889	
	As found	.....	7·35	0·34	7·26	3·15	10·75	7·60	6·30	.....	.....	"
J. F. POWER, INSPECTOR.												
335	As guaranteed	.....	3·5	.....	.....	.....	26·0	.....	.....	.....	53486	
	As found	.....	3·50	.....	12·72	13·28	26·10	12·72	.....	.....	.....	Meets guarantee.
		.....	.....	.....	.....	.....	.....	.....	.....	.....	53487	
	As found	.....	14·50	.....	.....	.....	.....	.....	.....	.....	.....	* Not registred.
74	As guaranteed	3·5	4·25	.....	.....	.....	10·0	.....	11·0	.....	53488	
	As found	.....	3·50	.....	.....	.....	9·53	.....	13·39	.....	.....	Meets guarantee.
.....	.....	.....	.....	.....	.....	.....	16·0	.....	.....	.....	53489	
	As found	.....	.....	.....	17·00	1·68	18·68	17·00	.....	80·2	.....	"
603	As guaranteed	12·34	15·0	.....	.....	.....	.....	.....	.....	.....	53490	
	As found	.....	15·10	.....	.....	.....	.....	.....	.....	.....	.....	"
73	As guaranteed	4·0	4·86	.....	.....	.....	10·0	.....	7·0	.....	53491	
	As found	.....	4·75	.....	.....	.....	10·38	.....	6·82	.....	.....	"
77	As guaranteed	15·5	18·8	.....	.....	.....	.....	.....	.....	.....	53492	
	As found	.....	18·30	.....	.....	.....	.....	.....	.....	.....	.....	"
80	As guaranteed	.....	.....	.....	.....	.....	16·0	.....	.....	.....	53493	
	As found	.....	.....	.....	.....	.....	19·33	.....	.....	.....	.....	"

* Manufacturers claims sale as poultry food.

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
								DISTRICT OF
1913.								
April 28	Blood Fertilizer.	53494	Swift Canadian Co., Eburne, B.C.	3 lbs.	Nil.	Vendors.		Not registered.
" 28	Unground Tankage Diamond I.	53495	"	3 "	"			
" 28	Rennie's Plant Food.	53496	Rennie & Co., Ltd., Vancouver, B.C.	3 pkgs	40	"		
								DISTRICT OF VICTORIA—
April 25	Swift's Animal Fertilizer B.	53572	The Brackman Ker M. Co., Ltd., Victoria, B.C.	3 lbs.	6	Swift's Canadian Co., Ltd., W'peg and Edmonton.		
" 25	Swift's Animal Fertilizer C.	53573	"	3 "	6	"		
" 25	Swift's Animal Fertilizer D.	53574	"	3 "	6	"		
" 25	B and K Bone Meal.	53576	"	3 "	6	Canadian North Pacific Fisheries Ltd., Victoria, B.C.		
" 25	Whale Guano	53577	"	3 "	6	"		No registered number or Analysis on sacks.
" 26	A. Fertilizer	53578	Victoria Chem. Co., Ltd., Victoria, B.C.	3 "	6¼	Vendors		
" 26	B. Fertilizer	53579	"	3 "	6¼	"		
" 26	C Fertilizer	53580	"	3 "	6¼	"		
" 26	D. Fertilizer.	53581	"	3 "	6¼	"		
" 26	Nitrate of Soda.	53582	"	3 "	9	Grace & Co., San Francisco, Cal.		
" 26	Sulphate of Potash.	53583	"	3 "	9	Myer, Wilson & Co., San Francisco, Cal.		
" 26	Muriate of Potash.	53584	"	3 "	9	"		
" 26	Bone Superphosphate of Lime.	53585		3 "	6½	Victoria Chem. Co., Ltd., Victoria, B.C.		
" 26	Rock Superphosphate of Lime.	53586	"	3 "	6½	Mountain, Copper Co., San Francisco, Cal.		Vendors stated that this is a new fertilizer, and has not been registered yet.

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total: including that of Nitric Acid or Ammonia if present.	Nitrogen p.c. Total: Calculated as Ammonia.	Phosphoric Acid per cent. Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
VANCOUVER—*Continued.*												
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
....	.....	.....	.....	....	....	.....	.....	.....	....	.....	53494	
	As found.....	.....	8·30	.. ..	.....	...	.....	.....	.....	.....	.....	Not registered as per report of inspector.
705	As guaranteed	4·93	6·0	.....	... ..	.....	10·0	.....	.....	.....	53495	
	As found.....	...	7·40	.....	15·28	11·45	26·73	15·28	.....	.....	... ..	Meets guarantee.
276	As guaranteed	.. .	2·5	8·0	.....	.....	...	.....	2·0	.....	53496	Excess phosphoric acid above claim.
	As found.....	....	3·40	.....	10·48	1·42	11·90	10·48	5·45	.....	.....	Meets guarantee.
D. O'SULLIVAN, INSPECTOR.												
707	As guaranteed	4·52	5·0	.....	.....	.....	7·32	.....	9·0	....	53572	Deficiency of potash.
	As found.....	.....	6·40	.....	...	.....	9·23	.....	3·42	.....		
708	As guaranteed	4·93	6·0	.....	.....	... .	7·78	.....	6·0	.....	53573	Meets guarantee.
	As found. ...	.....	7·1	.	....	.....	9·65	.....	5·15	.....		
(340)	As guaranteed	5·34	6·50	8·24	.....	...	.....	.....	3·00	.....	53574	Meets guarantee essentially.
	As found. ..	.....	6·82	.....	6·81	2·07	8·88	6·81	5·07	.....		
355	As guaranteed	.....	3·5	.....	.....	..	25·0	.....	.....	.....	53576	Meets guarantee.
	As found.....	.....	3·30	.....	12·58	13·15	25·73	12·58	.....	.....		
	As guaranteed	10·30	12·50	.....	.....	.....	.....	.....	.....	.....	53577	Meets guarantee, as assumed; but not properly tagged.
(589)	As found	...	13·35	.....	.....	.....	.....	.....	... ..	.....		
73	As guaranteed	4·0	4·9	10·0	.....	.....	.....	... .	7·0	.....	53578	Meets guarantee.
	As found.....	.	4·37	9·83	0·51	0·51	10·85	10·34	7·62	.....		
74	As guaranteed	3·5	4·25	10·0	.....	.....	.....	.....	11·0	.....	53579	Meets guarantee nearly.
	As found.....	.....	4·2	9·85	1·05	0·60	11·50	10·90	10·11	.....		
75	As guaranteed	.... .	...	12·5	.....	... ..	.....	.....	11·0	.....	53580	Deficient in potash.
	As found. ...	.....	.....	14·75	0·31	0·97	16·03	15·06	8·52	.....		
76	As guaranteed	2·5	3·04	10·0	.....	.....	.....	.....	11·0	.....	53581	Meets guarantee.
	As found.. ..	.....	2·97	10·18	0·07	0·60	10·85	10·25	11·05	.....		
77	As guaranteed	15·5	18·8	.....	... ..	.....	.....	.....	.....	.....	53582	"
	As found....	.....	18·00	.....	.....	.....	.....	.....	.....	.....		
78	As guaranteed	.....	.....	.....	.....	.....	.....	.... .	50·0	.....	53583	"
	As found.....	... ..	...	.....	.....	.....	.....	.. ..	49·25	.....		
79	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50·0	.....	53584	"
	As found.....	.....	.....	.....	.....	.....	.....	.....	54·35	.....		
80	As guaranteed	.....	.....	16·0	.....	.....	.....	.....	..	....	53585	"
	As found.....	.....	.....	17·20	....	0·28	17·48	17·20	.....	.....		
....	.....	.....	.....	.....	.....	.....	16·0	.....	.....	.....	53586	"
	As found.....	.....	.....	.....	.....	.....	18·93	.....	.....	.....		

APPENDIX H.

BULLETIN No. 265—SEIDLITZ POWDERS.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

OTTAWA, August 2, 1913.

SIR,—I beg to report upon 167 samples purchased by our inspectors as Seidlitz Powders in March and April of this year.

The British Pharmacopœia has the following foot-note (Ed. 1898, p. 273) 'Effervescent Tartarated Soda Powder is commonly known as Seidlitz Powder.'

The United States Pharmacopœia (8th revision) does not use the term 'Seidlitz Powder' except in the index, where it is identified with Pulvis Effervescens Compositus.

The B. P. Codex (1911) makes 'Seidlitz Powder' a synonym for 'Effervescent Tartarated Soda Powders.'

The directions of the British Pharmacopœia for this last are as below:—

	Imperial.	Metric.
	grains.	grammes.
Sodium Potassium Tartrate in dry powder	120	7·77
Sodium Bicarbonate in dry powder	40	2·59
Mix—Wrap in blue paper		
Tartaric Acid in dry powder	38	2·46
Wrap in white paper		

The Pulvis Effervescens Compositus of the U.S.P. has the following composition:—

	Gms.
Sodium Bicarbonate; dry, and in fine powder, thirty-one grammes	31
Potassium and Sodium Tartrate; dry, and in fine powder, ninety-three grammes	93
Tartaric Acid; dried, and in fine powder, twenty-seven grammes.	27

Mix the Sodium Bicarbonate intimately with the Potassium and Sodium Tartrate; divide the mixture into twelve equal parts, and wrap each part in a separate blue paper.

Then divide the Tartaric Acid into twelve equal parts, and wrap each part in a separate white paper.

The contents of blue and white papers for both pharmacopœiæs are identical as to character. The slightly different amounts are shown as follows:—

	B.P.	U.S.P.
Blue paper	10·36 grammes.	10·34 grammes.
White paper	2·46 "	2·25 "

The B. P. Codex defines the following distinct varieties of Seidlitz Powders:—

Extra Strong Seidlitz Powders, in which the sodium potassium tartrate in each blue paper is increased by one-half.

Double Strength Seidlitz Powders, in which the sodium potassium tartrate is doubled in amount.

Improved Seidlitz Powders, in which the tartaric acid in the white paper is replaced by 35 grains of citric acid, flavoured with oil of lemon.

It is important to note that these powders possess quite distinctive names, and are not to be confounded with Seidlitz Powders.

In Seidlitz Powders, the contents of the blue paper should weigh 160 grains (10·36 grammes), and those of the white paper, 38 grains (2·46 gms.). It is by this standard that the results of weighing recorded in the tables are judged. The contents of two blue and of two white papers have been weighed, in the case of each sample; and the differences found may be taken to indicate the care with which the maker of the powder has worked. It is difficult to say what amount of variation in weight should be tolerated; but it is safe to conclude that differences in weight amounting to ten per cent of the weight of the powder, indicate great carelessness in weighing. Where such differences occur between the weights of two powders from the same package, I have used the words: 'Carelessly weighed.'

Nineteen samples fall into this category as regards the blue paper; and ten samples as regards the white paper. It will be seen that great variation occurs in the actual weight of material, both in blue and in white papers. Instead of 160 grains for the total weight of the contents of the blue paper, I find amounts varying from 85 to 295 grains. If we regard 170 and 150 grains as permissible maximum and minimum weights (and I regard the latitude indicated as excessive) we find only 81 samples out of the total number within these limits, so far as the blue paper is concerned. Thirty-four samples weigh more than 170 grains; and 52 samples weigh less than 150 grains. It follows that fully 50 per cent of the total collection is adulterated under the Act, even by the liberal allowance suggested above—the blue paper being alone considered in the estimate.

The white paper should contain 38 grains of Tartaric Acid. This quantity is notably exceeded in comparatively few samples; and in some of these it is approximately proportional to the excess weight of the corresponding blue paper. Far more frequently the amount of tartaric acid is markedly below pharmacopœal requirements. In most of these samples the weight of the blue paper is correspondingly below standard, but this is not always the case.

It is to be remarked that the character of the material used in the manufacture of Seidlitz Powders, as illustrated by this inspection is good. It is also noteworthy that the mixture of Rochelle Salt and bicarbonate of soda contained in the blue paper is usually properly proportioned. In 19 samples the ratio between bicarbonate of soda and Rochelle Salt in the blue paper is quite abnormal, and I have used the word 'Abnormal' in relation to these samples.

As already stated, 29 samples show carelessness in weighing, by which phrase is implied that different powders (blue or white) from the same package are found to differ by more than 10 per cent in weight. This fact should constitute adulteration, inasmuch as pharmacopœal requirements are quite definite. Where, however, no other reason for holding the sample to be adulterated exists, I have not considered it necessary to charge adulteration, on the ground of careless weighing only. Twelve samples which indicate carelessness in weighing are nevertheless not judged to be adulterated. Adulteration is charged on the following grounds:—

(*a*) Deficiency of weight, where the weight of either blue or white paper falls 10 grains below the prescribed weight of 160 grains for contents of the blue; or 38 grains for the contents of the white, paper:—

	Samples.
Blue paper	42
White paper	5
	47

(*b*) Excess of weight, where the weight of either blue or white paper exceeds by 10 grains the prescribed weight:—21 samples.

(*c*) Where, while the total weight of each paper falls within the limits indicated above, the proportion of the ingredients is decidedly abnormal:—5 samples.

Total samples judged adulterated for reasons given—73.

RÉSUMÉ.

Passed as genuine	82
Adulteration charged	73
Carelessness in weighing	12
Total	167

The foregoing report shows an unexpected degree of carelessness or of fraud, in the manufacture of Seidlitz Powders. This may be partly due to the impression that a Seidlitz Powder is in use merely as a cooling beverage or a mild aperient, having no very definite composition. This is not the understanding of physicians, nor does it accord with the definitions of the pharmacopœia, and it should be finally dispelled if it exist. The fact that the ingredients of these powders are frequently measured, instead of being weighed, into their respective papers, does not justify such irregularity of weight as is above recorded. Measuring can only be tolerated so long as it does not give results materially different from those attained by use of the balance.

Some druggists have complained that, owing to the sharp competition among manufacturers, they cannot afford to give great care to the preparation of Seidlitz Powders. This consideration cannot be permitted any cogency under the Act. The article known as Seidlitz Powder is a perfectly well-defined drug, and must be judged by the definition given in the pharmacopœia.

I am of opinion that the limits of variability which I have assumed as permissible, are quite ample. Nevertheless, it must be confessed that we have no established authority in this matter of limits of variation. For this reason, and because this is the first general inspection of Seidlitz Powders under the Act, I would respectfully suggest that this report be published rather for the information and the warning of the trade than employed as the basis of prosecutions; and that it be printed as Bulletin No. 265.

I have the honour to be, Sir,
Your Obedient Servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
Mar. 6	Seidlitz Powders.	46946	Nat. Drug Co., Halifax, N.S.	1 doz.	25	N. D. & C. Co., Montreal.	Mfrs
" 7	"	46947	Kinley's Ltd., Halifax, N.S.	1 "	25	United Drug Co., Toronto, Ont.	"
" 7	"	46948	Brown Bros. & Co., Halifax, N.S.	1 "	25	Vendors	
" 10	"	46949	C. A. Barnstead, Halifax, N.S.	1 "	25	Vendor	
" 10	"	46950	Buckley Drug Co., Halifax, N.S.	1 "	25	Vendors	
" 10	"	46951	J. McD. Taylor, Halifax, N.S.	1 "	25	Wampole Co., Perth, Ont.	Mfrs
" 10	"	46952	R. S. McDonald, Halifax, N.S.	1 "	25	Toronto Phar. Co., Toronto.	"
" 11	"	46953	H. A. Watson, Halifax, N.S.	1 "	25	N. D. & C. Co., Halifax, N.S.	"
" 19	"	46954	G. C. McDougall, Kentville, N.S	1 "	25	United Drug Co., Toronto.	"
" 24	"	46955	Crowe Bros., Truro, N.S.	1 "	15	"	"
DISTRICT OF PRINCE EDWARD ISLAND—							
Feb. 26	Seidlitz Powders.	46404	J. G. Jamieson, Charlottetown, P.E.I.	1 box	25	Vendor	
Mar. 3	"	46405	Reddin Bros., Charlottetown, P.E.I.	1 "	25	Lyman Sons & Co., Montreal.	
" 4	"	46406	The Two Macs, Charlottetown, P.E.I.	1 "	25	H. K. Wampole, Perth, Ont.	
" 4	"	46407	The McKinnon Drug Co., Charlottetown, P.E.I.	1 "	25	United Drug Co., Toronto.	
" 11	"	46408	C. D. Rankin, Charlottetown, P.E.I.	¾ doz.	30	Howard & Sons., London, Eng.	
Apr. 25	"	46409	Keir & McFadyen, Kensington, P.E.I.	1 pkge	25	Lyman Sons & Co., Montreal.	
" 25	"	46410	Pr. F. W. Jardine, Kensington, P.E.I.	1 box	25	Nat. Drug & Chem. Co. of Canada, Ltd.	
" 25	"	46411	Gourlies Ltd., Summerside, P.E.I.	1 "	25	United Drug Co., Toronto.	
" 25	"	46412	McLellan & Co., Summerside, P.E.I.	1 "	25		Gourlies Ltd., Summerside, P.E.I.
DISTRICT OF NEW BRUNSWICK—							
Feb. 27	Seidlitz Powders.	50580	William Hawker & Son, St. John, N.B.	3 pkgs	30	Toronto Phar. Co., Ltd., Toronto, Ont.	
" 28	"	50581	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	1 pkg.	25	Vendors	
Mar. 6	"	50582	The Canadian Drug Co., Ltd., St. John, N.B.	1 "	25	"	

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Tartrate Powder. Weight of Powders in grains. No. 1.	No. 2.	Bicarbonate of Soda.	Rochelle Salt.	Acid Powder. Weight of Powders in grains. No. 1.	No. 2.	Tartaric Acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			p. c.	p. c.			p. c.		
R. J. WAUGH, INSPECTOR.									
	145	146	26·2	72·0	25	26	99·75	46946	Deficient weight. Adulterated.
	157	158	25·2	72·6	36	37	99·75	46947	
	170	171	24·4	74·7	40	42	99·75	46948	
	156	159	25·6	73·6	40	41	99·40	46949	
	118	142	25·8	74·7	40	49	99·75	46950	Carelessly weighed. Deficient weight. Adulterated.
	149	158	23·8	75·3	38	39	99·60	46951	
	168	170	24·6	75·3	38	39	99·75	46952	
	148	152	26·0	72·4	24	24	99·60	46953	Deficient weight. Adulterated.
	166	166	24·4	75·5	33	35	99·75	46954	
	160	165	26·8	71·5	37	38	99·75	46955	
WM. A. WEEKS, INSPECTOR.									
	173	173	24·8	73·7	39	42	99·00	46404	
	145	146	25·2	73·7	40	41	99·75	46405	Deficient weight Adulterated.
	135	160	24·8	74·7	34	36	99·75	46406	Carelessly weighted.
	162	164	25·6	74·0	39	42	99·75	46407	
	161	172	25·6	72·6	34	45	99·75	46408	Carelessly weighed.
	181	185	25·2	73·3	37	38	99·75	46409	Excess weight. Adulterated.
	143	147	25·2	73·3	30	31	99·75	46410	Deficient weight. "
	157	158	27·6	71·4	40	41	99·75	46411	
	161	164	25·6	72·6	35	37	99·75	46412	
J. C. FERGUSON, INSPECTOR.									
	153	154	24·4	74·5	27	28	100·0	50580	
	160	161	25·0	73·6	39	39	97·0	50581	
	154	156	25·6	74·4	38	39	99·75	50582	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK							
1913.							
Mar. 10	Seidlitz Powders.	50583	Frank E. Porter, St. John, N.B.	1 pkg.	25	Vendor	
" 12	"	50584	E. Clinton Brown, St. John, N.B.	1 "	25	"	
April 10	"	50585	Johnston & Johnston, St. Stephen, N.B.	1 "	25	United Drug Co. Ltd., Toronto.	
" 15	"	50586	John M. Wiley, Fredericton, N.B.	1 doz.	30	Vendor	
" 16	"	50587	The Baird Co., Ltd., Woodstock, N.B.	1 "	34	The Wingate Chem. Co., Montreal.	
" 23	"	50588	B. J. Sharp, Sussex, N.B.	1 box.	25	Gibson Howell & Co., Philadelphia, Pa.	
" 24	"	50589	The Leger Drug Co., Ltd., Moncton, N.B.	1 "	25	H. K. Wampole, Perth, Ont.	
DISTRICT OF QUEBEC							
Feb. 24	Seidlitz Powders.	37163	Benjamin Crepeault, 68 Rue Cremasie Montcalmville.	12 pkg.	15	Red Cross Phar. Co., Quebec.	N. Turcot & Cie. Quebec.
" 25	"	37164	F. Racine, 66 Rue Cremasie, Montcalmville.	1 "	18	"	"
" 25	"	37165	Dr. A. Fouruier, 65 Rue Cremasie, Montcalmville.	1 "	25	W. Brunet & Cie, Quebec.	Mfrs.
" 26	"	37166	Joseph Brulot, 11 Chenier St., Foie.	1 "	25	Red Cross Phar. Co., Quebec.	"
" 27	"	37167	Francois Cliche, 4 em Rue 131 Stadacona, Quebec.	1 "	15	Dr. Ed. Morin & Cie, Quebec.	"
Mar. 3	"	37168	Jos. F. Goslin, 50 Rue D'Orchester, Quebec.	1 "	20	"	"
" 4	"	37169	Charle Martel, 49 Rue Artillery Quebec.	1 "	15	Unknown	Unknown.
" 4	"	37170	A. Roy, 112½ Rue Scot, Quebec.	1 "	12		W. Brunet & Cie, Quebec.
" 5	"	37171	J. A. Martel, 155 Rue St. Patrick, Quebec.	1 "	20	L. E. Martel, 19 Rue St. Joseph Quebec.	Unknown
" 5	"	37172	Ernest Tessier, 121 Rue Scot, Quebec.	1 "	15	Dr. Ed. Morin & Cie, Quebec.	Mfrs.
DISTRICT OF THREE RIVERS							
Mar. 18	Seidlitz Powders.	57229	Ernest Asselin, St. Felix de Valois.	1 box.	18	Chevalier Pouliot, Joliette.	
" 19	"	57233	Esdras Asselin, St. Felix de Valois.	1 "	18	"	
" 22	"	57242	C. Barrette, Joliette	1 "	20	Jos. Contant, Montreal.	

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Results of Analysis.

Inspector's Report. (Is not an expression of Opinion).	Tartrate Powder.				Acid Powder.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Weight of Powders in grains.		Bicarbonate of Soda.	Rochelle Salt.	Weight of Powders in grains.		Tartaric Acid.		
	No. 1.	No. 2.			No. 1.	No. 2.			
Concluded.									
			p.c.	p.c.			p.c.		
.....	145	146	26·6	72·5	21	24	97·50	50583	Deficient weight. Adulterated.
.....	133	140	25·2	73·4	43	44	99·00	50584	" "
Rexall Seidlitz Powders.	156	159	27·7	71·3	35	36	99·75	50585	
.....	123	165	21·8	77·7	29	32	99·75	50586	Carelessly weighed.
Specially prepared for Vendors.	126	128	26·0	72·9	24	25	99·00	50587	Deficient weight.
.....	162	169	24·8	74·4	36	40	99·75	50588	
.....	177	178	24·4	75·0	36	38	99·75	50589	Excess weight.
F. X. W. E. BELAND, INSPECTOR.									
.....	138	143	68·0	32·0	39	36	99·40	37163	Abnormal. Deficient weight. Adulterated.
.....	171	165	69·7	30·2	35	36	99·75	37164	Abnormal. Adulterated.
.....	292	295	77·7	21·8	32	32	99·75	37165	" " Excess weight.
.....	135	147	66·8	33·2	33	32	99·75	37166	Abnormal. Adulterated. Deficient weight.
.....	138	119	50·8	49·0	37	38	99·40	37167	Carelessly weighed. Abnormal Adulterated. Deficient weight.
.....	128	128	55·0	38·8	41	44	99·75	37168	Abnormal. Adulterated. Deficient weight.
.....	160	165	26·6	73·4	42	45	99·40	37169	
.....	273	270	77·0	23·0	34	36	99·75	37170	Abnormal. Adulterated. Excess weight.
.....	170	182	22·7	76·6	50	54	98·65	37171	Excess tartaric acid. Excess total weight. Adulterated.
.....	172	181	78·1	21·5	31	33	99·75	37172	Abnormal. Adulterated. Excess weight.
DR. V. P. LAVALLÉE, INSPECTOR.									
.....	168	169	76·0	24·7	29	31	99·10	57229	Abnormal. Adulterated.
.....	169	171	72·2	27·9	30	30	99·40	57233	Abnormal. Adulterated. A third powder of this number was found to be normal.
.....	160	165	25·8	74·4	25	25	99·75	57242	Deficient weight. Adulterated.

BULLETIN No. 265—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1913.							
Mar. 10	Seidlitz Powders.	1534	Pharmacie Massicotte, Victoriaville.	1 box.	25	Vendors	
" 17	"	1535	A. J. Bedard, Richmond	1 "	25	The T. Milburn Co., Ltd., Toronto.	
" 18	"	1536	W. J. H. McKindsey, Lenoxville.	1 "	25	Lyman Knox, Montreal.	
" 18	"	1537	Dr. Lambly, Cookshire.	1 "	25	Lyman's Ltd., Montreal.	
" 19	"	1538	John West, Magog.	1 "	25	Nat. Drug Co., Montreal.	
April 4	"	1539	L. D. Girouard, Drummondville.	1 "	25	H. K. Wampole Perth, Ont.	
" 23	"	1540	J. T. Dozois, Granby	1 "	25	Toronto Phar Co., Toronto.	
" 23	"	1541	C. H. Welch, Waterloo	1 "	25	Nat. Drug Co., Montreal.	
" 25	"	1542	Pharmacie Viger, St. Hyacinthe.	1 "	20	Vendor	
" 25	"	1543	Dr. E. St. Jacques, St Hyacinthe.	1 "	25	Unknown	Unknown
DISTRICT OF MONTREAL—							
Feb. 24	Seidlitz Powders.	51201	C. A. Campagne, 717 Ont. St., Maisonneuve.	1 box.	20	Toronto Phar. Co., Ltd., Toronto.	
" 24	"	51202	Dr. D. Chouinard, Adam St., Maisonneuve.	1 "	20	Vendor	
" 27	"	51203	A. Lebeau, 465 St. James St., Montreal.	1 doz.	25	"	
" 27	"	51204	A. M. Brunnette, 1018 St James St., Montreal.	1 "	25	Lyman's Ltd Montreal.	
Mar. 3	"	51205	A. D. Mann, 190 Villeneuve St. W., Montreal.	1 box.	25		
" 3	"	51206	L. S. Desautels, 1661 St. Lawrence B., Montreal.	1 doz.	25		
" 4	"	51207	O. T. Pinck, 348 Notre Dame St. W., Montreal.	1 "	25	Nat. Drug & Chem. Co.	
" 4	"	51208	J. Pigeon, 412 Notre Dame St. W., Montreal.	1 box.	25	Toronto Phar Co., Ltd.	
" 4	"	51209	Dr. Leduc Drug Co., 456 Notre Dame St. W., Montreal.	1 "	25	Vendors	
" 4	"	51210	Lyons Cut Rate Drug Store, 10 Bleury St., Montreal	1 "	15	Lyman's, Ltd.,	

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Tartrate Powder. Weight of Powders in grains. No. 1.	No. 2.	Bicarbonate of Soda.	Rochelle Salt.	Acid Powder. Weight of Powders in grains. No. 1.	No. 2.	Tartaric Acid	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			p.c.	p.c.			p.c.		
.....	152	161	25·0	73 2	52	57	99 70	1534	Excess tartaric acid. Adulterated.
Reg. No. 71.....	92	105	25·2	72·9	20	26	99 70	1535	Carelessly weighed. Deficient weight. Adulterated.
.....	169	176	25·0	73 2	51	52	99 75	1536	Excess tartaric acid. Adulterated
.....	153	156	19·5	79·0	42	42	99 75	1537	Abnormal. Adulterated.
.....	140	145	26·2	72·1	26	26	99 80	1538	Deficient weight. Adulterated
.....	150	163	23·1	74·4	36	38	99 75	1539	
.....	152	155	25·6	73 0	41	42	99 75	1540	
.....	156	158	25·4	73·2	37	37	99 60	1541	
.....	129	135	27·3	71·3	33	36	99 80	1542	Deficient weight. Adulterated.
.....	210	213	19·3	78 2	38	40	99 90	1543	Abnormal. Excess weight. Adulterated.

J. C. ROULEAU, INSPECTOR.

J. J. COSTIGAN, INSPECTOR.

.....	168	164	25·9	72 7	28	29	99 75	51201	
.....	156	159	25·1	74 9	38	38	100·0	51202	
.....	186	197	24·6	73 9	36	40	52 8	51203	Adulterated. Excess weight.
.....	156	163	24·4	75·6	37	37	99 75	51204	
.....	158	158	25·1	75 0	36	36	99 75	51205	
.....	170	174	25·4	74·1	40	45	100·0	51206	
.....	156	158	25·6	74·7	38	33	99 75	51207	
.....	163	170	24·8	75·2	28	28	99·75	51208	
.....	155	157	25·8	74·2	42	47	99·75	51209	
.....	157	160	24·6	75·5	35	37	100 0	51210	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF VALLEYFIELD							
1913.							
Mar. 13	Seidlitz Powders.	51316	W. Plante, Valleyfield, P.Q.	1 box.	25	Wingate Chem. Co., Ltd., Montreal.	
" 13	"	51317	Dr. S. W. Laroche, Valleyfield, P.Q.	1 "	25	H. K. Wampole Co., Perth, Ont.	
" 13	"	51318	The Ind. Co-op. Soc., Ltd., Valleyfield, P.Q.	1 "	25	B. E. McGale, Montreal.	
" 19	"	51319	D. J. McIntosh, Vankleek Hill, Ont.	1 "	25	Toronto Phar. Co., Ltd., Toronto.	
" 19	"	51320	P. J. McLaurin, Vankleek Hill, Ont.	1 "	25	Lyman's Ltd., Montreal.	
" 19	"	51321	E. P. Elridge, Vankleek Hill, Ont.	1 "	25	United Drug Co., Toronto.	
" 20	"	51322	W. A. McCrea, Hawkesbury, Ont.	1 "	25	H. K. Wampole Ltd., Perth, Ont.	
" 20	"	51323	Banford & Dunning, Hawkesbury, Ont.	1 "	25	Wingate Chem. Co., Montreal.	
" 24	"	51324	John McLeister, Alexandria, Ont.	1 "	25	Toronto Phar. Co., Ltd., Toronto.	
" 24	"	51325	Brock, Ostrom & Son, Alexandria, Ont.	1 doz.	25	Lyman's Ltd., Montreal.	
DISTRICT OF OTTAWA—							
Feb. 28	Seidlitz Powders.	51730	M. E. Cormier, Aylmer, P.Q.	1 box.	20	J. L. Rochester, Ltd., Ottawa.	Mfrs
" 21	"	51731	Mrs. Barrett, Cornwall.	1 "	25	T. Milburn & Co., Toronto.	"
" 24	"	51732	Wm. J. Kelly, Arnprior	1 "	20	Wingate Chem. Co. Ltd., Montreal.	H. N. Bate & Sons, Ottawa.
" 27	"	51733	C. J. Neate, Sussex St., Ottawa.	1 "	15		J. G. Whyte & Sons, Ottawa.
" 27	"	51734	W. H. McCreery, Creighton St., Ottawa.	1 "	15	Ottawa Drug Co., Ottawa.	Mfrs
" 27	"	51735	E. Ackland, Creighton St., Ottawa.	1 "	15	Provost & Allard, Ottawa.	"
" 27	"	51376	P. Daoust & Cie, Hull, P.Q.	1 "	15	F. F. Dalley Co., Ltd., Hamilton.	"
" 27	"	51737	A. Labelle, Hull, P.Q.	1 "	15	P. H. Derocher, Hull, P.Q.	"
" 27	"	51738	E. McEwen, Hull, P.Q.	1 "	15	Frank P. Savage, Ottawa.	"
" 27	"	51739	R. Picard, Hull, P.Q.	1 "	15	Hull Medical Hall, Hull, P.Q.	"

SEIDLITZ POWDERS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Tartrate Powder. Weight of Powders in grains. No. 1.	No. 2.	Bicarbonate of Soda.	Rochelle Salt.	Acid Powder. Weight of Powders in grains. No. 1.	No. 2.	Tartaric Acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. J. COSTIGAN, ACTING INSPECTOR.									
			p. c.	p. c.			p. c.		
.....	128	129	29·0	70·5	25	25	99·75	51316	Deficient weight. Adulterated.
.....	148	153	22·0	77·7	24	29	99·90	51317	" "
....	140	142	24·8	73·6	40	41	99·65	51318	" "
.....	145	164	25·0	73·2	26	27	99·75	51319	Carelessly weighed.
....	152	159	23·8	72·5	39	41	99·75	51320	
.....	151	157	26·6	71·6	41	43	99·80	51321	
.....	168	175	25·0	73·9	39	43	99·80	51322	
....	85	119	26·2	72·6	22	26	100·0	51323	Carelessly weighed. Deficient weight. Adulterated.
....	164	165	24·8	74·2	36	41	99·90	51324	
....	135	141	25·6	72·6	36	38	99·75	51325	Deficient weight. Adulterated.
J. A. RICKEY. INSPECTOR.									
....	161	162	28·3	72 7	38	36	99 75	51730	
....	105	98	25·2	75·0	31	31	99·75	51731	Deficient weight. Adulterated.
.....	122	123	27·3	72·7	26	17	99·75	51732	Carelessly weighed. Deficient weight. Adulterated.
....	156	147	25·3	74·7	37	39	99·75	51733	
....	138	128	27 5	72 3	35	34	100·0	51734	Deficient weight. Adulterated.
....	126	129	23·6	76·4	29	28	99·75	51735	" "
.....	118	125	24·3	75·7	43	39	99 75	51736	" "
....	127	124	26·7	73·3	31	30	99·40	51737	" "
Genuine Imperial Seidlitz Powders.	141	149	43·0	57·0	19	19	99·75	51738	Abnormal. Adulterated. Deficient weight.
....	155	149	25·1	74·8	35	38	100·0	51739	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—							
1913.							
Mar. 10	Seidlitz Powders.	45775	T. B. Wallace, Napanee	1 box.	25	United Drug Co. Toronto.	
" 10	"	45776	F. L. Hooper, Napanee	1 "	25	Vendor	
" 10	"	45777	D. B. Bleecker, Belleville	1 "	25	"	
" 10	"	45778	J. S. McKeown, Belleville	1 "	25	United Drug Co. Toronto.	
" 10	"	45779	Belleville Pharmacy, Belleville.	1 "	25	Vendor	
Feb. 20	"	53077	W. M. Medley, Kingston	1 pkg.	25	Wampole, Perth, Ont.	
" 21	"	53078	T. H. Sargent, Kingston	1 "	25	"	
" 21	"	53079	C. S. Prouse, Kingston	1 "	25	Lyman Co., Toronto.	
" 21	"	53080	A. P. Chown, Kingston	1 "	25	Wampole, Perth, Ont.	
" 21	"	53081	Geo. Mahood, Kingston	1 "	25	Vendor	
" 24	"	53082	J. S. McKeown, Belleville	1 box.	25	United Drug Co. Toronto.	
" 24	"	53083	Belleville Pharmacy, Belleville.	1 pkg.	25	Vendor	
" 25	"	53084	W. H. Semple, Cobourg	1 "	25	"	
" 25	"	53085	W. J. B. Davison, Port Hope	1 "	25	Drug Trading Co., Toronto.	
" 26	"	53086	Warne Drug Co., Ltd., Peterboro.	1 "	25	Nat. Drug Co., Toronto.	
DISTRICT OF TORONTO—							
Feb. 28	Seidlitz Powders.	57031	W. H. Field, 675 Spadina Ave., Toronto.	1 doz.	30	Vendor	
Mar. 4	"	57032	The Ferrate Drug Co., Bloor & Bathurst Sts., Toronto.	1 "	25		Toronto Phar. Co., Ltd., Toronto.
" 5	"	57033	F. W. Smith, 7 Danforth Ave. Toronto.	1 "	15		Lyman Bros. & Co., Ltd., Toronto.
" 5	"	57034	Mrs. L. Fayle, 311 Danforth Ave., Toronto.	1 "	20	The Carter Drug Co., Toronto.	
" 5	"	57035	F. L. Cole, 1230 College St., Toronto.	1 "	25	Vendor	
6	"	57036	Geo. Marshall, 137 Wilton Ave., Toronto.	1 "	25		The Drug Trading Co., Ltd., Toronto.

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an expression of Opinion.	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Tartrate Powder.				Acid Powder.				
	Weight of Powders in grains.		Bicarbonate of Soda.	Rochelle Salt.	Weight of Powders in grains.		Tartaric Acid.		
	No. 1.	No. 2.			No. 1.	No. 2.			
JAS. HOGAN, INSPECTOR.			p.c.	p.c.			p.c.		
.....	159	162	25·4	73·6	38	39	99·90	45775	
.....	144	147	25·2	73·4	28	33	99·75	45776	Carelessly weighed. Deficient weight. Adulterated.
.....	157	157	24·0	74·2	35	35	99·60	45777	
.....	157	157	28·1	70·4	37	38	99·75	45778	
.....	197	205	25·0	73·6	55	55	99·90	45779	Over weight and excess tartaric acid. Adulterated.
.....	173	182	25·4	73·6	42	40	99·40	53077	Excess weight. Adulterated.
.....	174	177	25·0	73·6	42	39	99·40	53078	" "
.....	165	166	25·2	72·9	35	36	99·75	53079	
.....	159	169	27·1	73·9	32	30	100·0	53080	
.....	145	154	33·2	65·4	52	47	99·75	53081	Excess tartaric acid. Abnormal Adulterated.
.....	147	149	29·7	72·6	51	52	99·75	53082	Excess tartaric acid. Adulterated.
.....	195	197	25·0	75·5	54	54	99·76	53083	Over weight and excess tartaric acid. Adulterated.
.....	100	112	28·1	75·5	23	24	99·75	53084	Carelessly weighed. Deficient weight. Adulterated.
.....	152	155	26·6	76·3	39	40	99·40	53085	
.....	127	138	26·0	75·0	23	24	99·75	53086	Deficient weight. Adulterated.
H. J. DAGER, INSPECTOR.									
Labelled genuine weight Seidlitz Powders.	156	160	25·2	73·6	37	39	99·75	57031	
Labelled genuine full weight Seidlitz Powds.	163	175	25·2	73·4	38	40	99·75	57032	
"	118	127	24·6	74·4	28	28	99·65	57033	Deficient weight. Adulterated.
Labelled Carter's Perfect Seid. Powds. No. 442 P, or P. M, act.	92	102	26·2	73·2	31	34	99·00	57034	" "
Labelled Highly Imported Seid. Powders.	131	165	24·6	74·4	30	35	99·75	57035	Carelessly weighed.
Labelled full weight Seidlitz owders.	158	159	25·2	72·4	39	40	99·75	57036	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF TORONTO—	
1913.							
Mar. 6	Seidlitz Powders.	57037	H. B. Mitchell, 1928 Queen St., East, Toronto.	1 doz.	25	.....	Lyman Bros. Co. Ltd., Toronto.
" 10	"	57038	E. E. Rutherford, 400 Spadina Ave., Toronto.	1 "	25	Vendor	.....
" 12	"	57039	W. H. Lee, Ave. Road & Macpherson Ave., Toronto.	1 "	25	"	.....
" 12	"	57040	N. A. Vetter, 55 Ave. Road, Toronto.	1 "	25	"	.....
						DISTRICT OF HAMILT N—	
Apr. 8	Seidlitz Powders.	57131	H. E. Perrott, King & Colborne Sts., Brantford.	1 doz.	25	Vendor	.....
" 9	"	57132	M. H. Robertson, 72 Erie St., Brantford.	1 "	30	"	.....
" 10	"	57133	H. A. Crooks, Paris.....	1 "	25	"	.....
" 17	"	57134	F. W. Jeffs, 68 King St., St. Catharines.	1 "	25	"	.....
" 17	"	57135	Walker, Abbs & Co., 295 St. Paul St., St. Catharines.	1 "	30	Vendors.....	.....
" 17	"	57136	J. L. Macartney, Erie Ave., Niagara Falls.	1 "	35	Vendor.....	.....
" 18	"	57137	W. W. Kerr, 829 Ferry St., Niagara Falls South.	1 "	30	"	.....
" 18	"	57138	The Hennesey Drug Stores, Ltd., 268 King St. west, Hamilton.	1 "	30	Vendors.....	.....
" 19	"	57139	E. B. Mealley, 165 King St. east, Hamilton.	1 "	25	Vendor.....	.....
" 23	"	57140	Hawkins Ltd., 6 Market Square, Hamilton.	1 "	20	Vendors.....	.....

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Tartrate Powder. Weight of Powders in grains. No. 1.	No. 2.	Bicarbonate of Soda.	Rochelle Salt.	Acid Powder. Weight of Powders in grains. No. 1.	No. 2.	Tartaric Acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
H. J. DAGER, INSPECTOR.—*Concluded.*									
			p. c.	p. c.			p. c.		
Labelled Highly Imp. Seidlitz Powders guaranteed full strength and ingredients pure.	154	157	24·4	74·2	35	35	99·40	57037	
Labelled Seidlitz Powders. Full weight.	148	154	24·8	73·2	39	42	99·85	57038	
....	144	148	25·6	74·7	46	48	99·40	57039	
Labelled Seidlitz Powders. Full weight.	162	177	24·2	73·9	38	39	99·85	57040	
H. J. DAGER, ACTING INSPECTOR.									
Labelled genuine full weight Seid. Powders.	113	137	28·1	71·7	40	43	99·40	57131	Carelessly weighed. Deficient weight Adulterated.
Labelled genuine Seid. Powders.	130	137	25·6	74·4	41	43	99·75	57132	Deficient weight. Adulterated.
Labelled improved Seidlitz Powders. Warranted full weight.	163	170	25·4	73·9	33	35	99·75	57133	
Labelled gennine Seid. Powders.	128	153	25·4	73·6	37	40	99·75	57134	Carelessly weighed.
" " ..	171	186	24·2	75·3	43	44	99·75	57135	
Labelled genuine aperient Seid. Powders.	146	181	22·3	77·5	33	40	99·40	57136	Carelessly weighed.
Labelled genuine full weight Seid. Powders.	120	140	29·2	71·8	52	56	99·75	57137	Carelessly weighed. Excess tartaric acid. Deficient weight. Adulterated.
Labelled genuine Seid. Powders, possessing all the medicinal properties of the Eff. Springs in Ger.	154	157	24·4	73·9	54	60	99·75	57138	Excess tartaric acid. Adulterated.
Labelled improved Seid. Powders.	123	147	24·8	74·7	45	49	99·60	57139	Carelessly weighed. Deficient weight. Adulterated.
" " ..	118	119	26·5	72·9	47	50	99·40	57140	Excess tartaric acid. Deficient weight. Adulterated.

Date of Collection,	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manuacturer	Furnisher.
DISTRICT OF WINDSOR—							
1913.							
Mar. 4	Seidlitz Powders.	47958	S. F. Park & Co., Chatham, Ont.	1 box.	25	Vendors	
" 4	"	47959	J. G. Clark, Chatham, Ont.	1 "	25	Vendor	
" 4	"	47961	Powell, Davis Co, Chatham, Ont.	1 pkg.	25	Vendors	
" 5	"	47964	W. A. Pond, Windsor, Ont.	1 "	25	United Drug Co., Toronto.	
" 5	"	47967	F. H. Laing, Windsor, Ont.	1 "	25	Vendor	
" 5	"	47969	Gardner Pickard Drug Co., Windsor, Ont.	1 "	25	Vendors	
" 5	"	47973	A. J. Wilkinson, Windsor, Ont.	1 box.	25	Vendor	
" 5	"	47976	H. O. Fleming, Windsor, Ont.	1 pkg.	25	"	
" 6	"	47977	S. H. Sadler, Essex, Ont.	1 "	25	United Drug Co., Toronto.	
" 6	"	47985	Theo. B. S. Tweedale, Essex, Ont.	1 "	30	Vendor	
DISTRICT OF MANITOBA—							
Feb. 25	Seidlitz Powders.	48826	P. F. Braund, Portage Ave., Winnipeg.	1 box.	25	The Martin Bole Wynn Co., Winnipeg.	Mfrs.
" 26	"	48827	Public Drug Co., Winnipeg.	1 "	25	The Toronto Phar. Co., Toronto.	"
" 26	"	48828	The Gordon Mitchell Drug Co., Winnipeg.	1 "	25	Unknown	Unknown.
" 27	"	48829	Colcleugh & Co., Notre Dame & Sherbrooke, Winnipeg.	1 "	25		
" 27	"	48830	D. W. Bradshaw, Notre Dame Ave., Winnipeg.	1 "	25	Martin Bole Wynn Co., Winnipeg.	Mfrs.
Mar. 11	"	48831 A	Morden Pharmacy, Morden	1 "	25	Dr. Wilson Med. Co., Toronto.	
" 11	"	48831	W. Collins Co, Winnipeg	1 "	25	The Martin Bole Wynn Co., Winnipeg.	
" 13	"	48832	St. John Pharmacy, Winnipeg	1 "	25	Toronto Phar., Co., Ltd., Toronto.	
" 14	"	48833	W. G. Lang, Norwood Grove, P.O.	1 "	25	The Martin Bole Wynn Co., Winnipeg.	
" 15	"	48834	Elmwood Drug Store, Elmwood, P.O., Winnipeg.	1 "	25	Toronto Phar. Co., Ltd., Toronto.	

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Tartrate Powder.				Acid Powder.				
	Weight of Powders in grains.		Bicarbonate of Soda.	Rochelle Salt.	Weight of Powders in grains.		Tartaric Acid.		
	No. 1.	No. 2.			No. 1.	No. 2.			
			p.c.	p.c.			p.c.		
JNO. TALBOT, INSPECTOR.									
.....	130	131	25·0	74·7	36	35	100·0	47958	Deficient weight. Adulterated.
.....	154	151	26·4	75·0	44	34	99·75	47959	Carelessly weighed.
....	157	162	25·0	75·0	48	47	99·75	47961	
Rexall.....	158	158	28·6	71·3	40	40	99·75	47964	
....	142	153	25·6	73·9	36	37	99·75	47967	
.....	120	124	29·4	70·2	43	47	100·0	47969	Deficient weight. Adulterated.
....	151	139	25·8	74·2	35	45	99·75	47973	Carelessly weighed.
.....	177	168	26·4	73·4	56	53	99·75	47976	Excess tartaric acid. Adulterated.
Rexall.....	160	160	22·7	77·1	36	37	99·75	47977	
..... .	216	218	25·2	75·8	42	39	99·75	47985	Excess weight. Adulterated.
A. C. LARIVIERE, INSPECTOR.									
. .....	126	138	33·8	65·2	33	37	99·50	48826	Abnormal. Deficient weight. Adulterated.
.....	150	154	25·2	73·4	34	35	99·75	48827	
Put up for the Gordon Mitchell Drug Co., Winnipeg.	172	175	25·4	73·2	42	43	99·90	48828	
... ...	164	172	24·4	73·9	29	30	99·60	48829	
... .	124	143	34·6	64·1	33	37	99·75	48830	Carelessly weighed. Abnormal. Deficient weight. Adulterated.
.....	158	166	24·8	73·6	37	38	99·75	48831 A	
.....	106	115	31·1	67·0	34	36	99·75	48831	Abnormal. Deficient weight. Adulterated.
.. ..	165	166	25·4	73·2	44	44	99·75	48832	
Marwyn Seidlitz Powders.	117	127	36·1	62·4	34	37	99·60	48833	Abnormal. Deficient weight. Adulterated.
.....	159	159	25·6	73·2	38	38	99·75	48834	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF ROCKY MOUNTAINS—							
1913.							
Mar. 4	Seidlitz Powders.	49822	Rutherford Drug Co., Nelson, B.C.	1 doz.	40	Vendors	
" 4	"	49827	Canada Drug & Book Co., Nelson, B.C.	1 "	40	Toronto Phar. Co., Toronto.	
" 7	"	49848	Phœnix Drug Co., Phœnix, B.C.	1 "	50	H. K. Wampole, Perth, Ont.	
" 13	"	49852	J. Wylie, Hosmer, B.C.	2box's	50	The Martin Bole & Wynn Co., Winnipeg.	
" 13	"	49853	"	1 "	50		W. C. Wholesale Co., Fernie, B.C.
" 17	"	49863	C. R. Macdonald, Revelstoke, B.C.	1 doz.	40	Nat. Drug & Chem. Co., Montreal.	
" 17	"	49864	Walter Bews, Revelstoke, B.C.	1 "	40	Vendor	
April 7	"	49870	A. Reeves, Enderby, B.C.	1 "	40	H. K. Wampole, Perth, Ont.	
" 9	"	49876	E. T. Abbot, Arunstrong, B.C	1 box.	25	R. E. Berry, Vernon, B.C.	
" 26	"	49890	Thos Stout, Rossland, B.C.	1 doz.	35	Toronto Phar., Co., Toronto.	
DISTRICT OF VANCOUVER—							
Mar. 6	Seidlitz Powders.	53431	Leslie Henderson, Georgia & Granville Sts. Vanc., B.C.	1 pkge	25	Vendor	
" 6	"	53432	Burns & Cairns, Vancouver Block, Vancouver, B.C.	1 "	25	Nat. Drug Co., Vancouver.	
" 7	"	53433	Vancouver Drug Co., Richard & Hastings Sts., Vanc., BC.	1 "	15	Manchester Drug Co., Toronto.	
" 7	"	53434	Brown & Dawson, 439 Hastings St., Vancouver, B.C.	1 "	25	Unknown	
" 7	"	53435	McDuffey Bros., 132 Cordova St., Vancouver, B.C.	1 "	25	J. A. Teepoorten, & Co., Vanc.	
" 7	"	53436	Owl Drug Store, Abbott & Cordova Sts., Vanc., B.C.	1 "	25	Vendors	
" 7	"	53437	Central Drug Stores, 16 Cordova St. west, Vanc., B.C.	1 "	25	"	
" 10	"	53438	W. E. Almas, Pender & Burrard Sts., Vanc., B.C.	1 "	25	Vendor	
" 10	"	53439	Manhattan Pharmacy, Robson & Thurton Sts., Vanc., B.C.	1 "	25	"	
" 10	"	53440	Harrison's Drug Store, Robson & Granville Sts., Vanc., B.C.	1 "	25	"	

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Tartrate Powder.				Acid Powder.				
	Weight of Powders in grains.		Bicarbonate of Soda.	Rochelle Salt.	Weight of Powders in grains.		Tartaric Acid.		
	No. 1.	No. 2.			No. 1.	No. 2.			
THOS. PARKER, INSPECTOR.									
			p. c.	p. c.			p. c.		
.....	132	140	23·5	73·9	48	54	99·75	49822	Carelessly weighed; excess tartaric acid. Deficient weight. Adulterated.
.....	165	167	25·2	73·6	29	31	99·90	49827	
....	163	164	25·2	73·9	27	28	99·75	49848	
Marwyn.....	140	153	25·2	73·4	30	34	99·75	49852	
....	167	168	25·2	73·6	38	39	99·40	49853	
....	163	168	25·6	72·0	32	34	99·75	49863	
....	158	159	24·6	74·4	39	44	99·60	49864	
....	150	150	25·8	73·0	20	24	99·75	49870	Tartaric acid low. Adulterated.
.. ..	168	172	23·5	75·4	23	29	99·40	49876	" "
....	161	164	25·6	72·6	26	28	99·80	49890	
J. F. POWER, INSPECTOR.									
....	162	163	26·2	73·6	37	38	99·60	53431	
.....	163	169	25·4	74·4	39	40	99·60	53432	
. .....	169	176	25·2	72·9	40	42	99·75	53433	
....	156	170	27·5	70·5	35	44	99·75	53434	Carelessly weighed.
....	157	159	25·4	72·8	40	40	99·75	53435	
....	119	175	27·3	72·5	40	41	99·75	53436	Carelessly weighed.
... .	151	167	25·0	72·9	36	38	99·75	53437	
.....	142	150	25·6	72·9	33	36	99·75	53438	
....	194	197	26·2	71·0	49	60	99·80	53439	Carelessly weighed. Overweight. Adulterated.
... .	154	159	27·1	71·3	38	41	99·75	53440	

BULLETIN No. 265—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF VICTORIA–				
1913.							
Mar. 10	Seidlitz Powders.	53519	F. J. Williams, 613 Fort St., Victoria, B.C.	1 pkge	25	H. K. Wampole, Perth, Ont.	....
" 10	"	53521	D. E. Campbell, 650 Fort St., Victoria, B.C.	1 doz.	50	Vendor.....	....
" 10	"	53523	Terry's Drug Store, 705 Fort St., Victoria, B.C.	1 " ..	35	Toronto Phar. Co., Toronto.	.....
" 10	"	53525	Geo. A. Fraser & Co., 912-914 Govt., St., Victoria, B.C.	1 " ..	50	Vendors.....	....
" 10	"	53527	Cyrus H. Bowes, 228 Govt. St., Victoria, B.C.	1 " ..	50	Vendor.....	... .
" 10	"	53529	Ivels Pharmacy, 1415 Govt. St., Victoria, B.C.	1 " ..	40	"	....
" 10	"	53531	Dean & Hiscocks, 627 Yates St., Victoria, B.C.	1 " ..	35	H. K. Wampole, Perth, Ont.	.....
" 11	"	53533	John Cochrane, 1300 Douglas St., Victoria, B.C.	1 " ..	50	Vendor.....	....
" 11	"	53535	W. Jackson & Co., Victoria, B.C.	1 " ..	50	Vendors.....	.....
" 11	"	53537	Hall & Co., 702 Yates St.. Victoria, B.C.	1 " ..	50	Nat. Drug & Chem. Co,, Victoria, B.C.	.....

SESSIONAL PAPER No. 14

SEIDLITZ POWDERS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Tartrate Powder.				Acid Powder.				
	Weight of Powders in grains.		Bicarbonate of Soda.	Rochelle Salt.	Weight of Powders in grains.		Tartaric Acid.		
	No. 1.	No. 2.			No. 1.	No. 2.			
D. O'SULLIVAN, INSPECTOR.									
			p.c.	p.c.			p.c.		
. . ..	147	152	27·1	71·5	42	44	99·60	53519	
....	160	161	25·4	73·9	40	41	99·75	53521	
.....	165	167	19·5	79·0	26	29	99·60	53523	Abnormal. Adulterated.
.....	154	162	29·0	68·9	40	42	99·75	53525	
....	156	156	26·0	73 6	31	33	99·75	53527	
.. ..	156	162	26·5	73·4	41	44	99·00	53529	
....	153	171	25·6	73·4	37	41	99·40	53531	Carelessly weighed.
.....	204	216	25 6	73·4	39	44	99·75	53533	Excess weight. Adulterated.
....	152	159	24·8	73·4	42	47	99·75	53535	
.....	151	162	24·4	73·4	36	37	99·75	53537	

APPENDIX I.

BULLETIN No. 266—LINSEED OIL.

OTTAWA, September 6, 1913.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you herewith a report dealing with Linseed Oil. This report gives you, in synoptical form, the analytical results obtained with, and other information concerning, fifty-three samples (53) purchased by our inspectors during December of last year and January of the present year.

Linseed Oil comes within the scope of the Adulteration Act both as a drug and as a paint material, being included, in admixture with white lead, in Schedule 4 of the Act.

Regarded as a drug, it is described by the British Pharmacopœia as follows:—(Ed. 1898).

"The oil expressed from Linseed at ordinary temperature. Characters: viscid, yellow, with a faint but distinct odour and bland taste. Specific gravity, 0.930 to 0.940. It is soluble in 10 parts of alcohol (90 per cent) and in oil of turpentine. It gradually thickens by exposure to the air, forming, when spread in a thin layer on glass, a hard, transparent varnish. It does not congeal above 4 deg. Fahr. (—20 deg. C.),,

This description applies to the article known as Raw Oil.

The chief commercial value of Linseed Oil derives from its use as a paint and varnish material. The oil rapidly absorbs atmospheric oxygen, with formation of a tough, resinous mass, and is the best known example of a so-called "drying" oil. The readiness with which it takes up oxygen is increased by heating to 180 deg C., and especially by heating in presence of certain metallic oxides or salts. When it has undergone this treatment it is known as "Boiled" Oil.

Owing to the fact that commercial Linseed is never pure, it follows that the oil expressed from such seed varies in character, within limits, depending upon the nature and amount of foreign seeds in admixture. The following extremes are quoted from Allen's Commercial Organic Analysis, 4th Ed., Vol. II, p. 70:—

Specific gravity at 15.5 deg. C.	0.9315	to	0.9410
Solidification point	—16 deg.	to	—27 C.
Melting point of fatty acids	17 "	to	24 C.
Saponification value	190 "	to	201
Reichert Meissl value	0		
Hehner value	95	to	95.5
Iodine value	175	to	201

Linseed oil, both raw and boiled, is frequently adulterated by addition of hydrocarbons, rosin oil and fish oils. Cotton seed oil has sometimes been employed as an adulterant, and soya bean oil is suspected.

Owing to the great variety and diverse character of available adulterants for linseed oil, and to the inevitable variability of the article even when commercially genuine, the detection of adulteration in linseed oil is far from being a simple matter. Large buyers of linseed oil would do well to furnish specifications of the article they demand, or purchase by sample. The American Society for Testing Materials fixed the following specifications for the year 1910 (Oil and Colour Journal, 1909, 36):—

Raw Linseed Oil.	Max.	Min.
Specific gravity at 15 Deg	0·836	0·932
" at 25 "	0·931	0·927
Acid number	6·000	..
Saponification value	192	189
Unsaponifiable matter	1·5	..
Refractive Index at 25 Deg	1·4805	1·4790
Hanns Iodine value	190	178

The accompanying tables will furnish information regarding Linseed Oil as found in Canadian markets. Since most of these samples were supplied as for use in the arts, and not as drugs, it would not be just to apply to them, in strictness, the Standard of the British Pharmacopœia. As judged upon the whole results of analysis, I have been able to classify them as follows:—

Apparently genuine	36	samples.
Of doubtful genuineness	10	"
Adulterated	7	"
Total	53	"

The chief adulteration found consists in addition of mineral oil, which undoubtedly forms the main adulterant on this continent.

This is the first occasion upon which a systematic examination of Linseed Oil has been made under the Adulteration Act, and the principal value of this report consists in its bringing to notice the fact that adulteration of linseed oil is not unknown in Canada. There can be no doubt that the most effective way to prevent adulterated linseed oil coming into our country would be the adoption of the plan which I have already recommended, namely, the purchase of the article to carefully prepared specification.

I beg to recommend the publication of this report as Bulletin No. 266.

I have the honour to be, Sir,
Your Obedient Servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
Jan. 16	Linseed Oil.	46651	Wm. Stairs Son & Morrow, Halifax, N.S.	1 qt..	25	Canadian Linseed Oil Co., Toronto.	Mfrs.....
" 16	" ..	46652	Crowell Bros., Halifax, N.S..	1 " ..	25	" ..	" .....
" 16	" ..	46653	A. M. Bell & Co., Halifax, N.S.	1 " ..	30	Unknown	Unknown ....
" 14	" ..	46654	Nat. Drug Co., Halifax, N.S.	1 " ..	45	Dominion Linseed Oil Co., Toronto.	Mfrs. .....
" 16	" ..	46655	Wm. Stairs Son & Morrow, Halifax, N.S.	1 " ..	23	Canadian Linseed Oil Co., Toronto.	" .....
" 24	" .	46656	Jas. Simmond Co., Dartmouth, N.S.	1 " ..	25	" ..	" .....
DISTRICT OF QUEBEC—							
1912.							
Dec. 19	Linseed Oil.	37292	H. Young, 111 Rue du Pont, Quebec.	3pints	43	Canadian Seed Oil Co.	Mfr.....
" 20	" ..	37293	E. Martineau, 135 Rue St. Joseph, Quebec.	1 " ..	45	Irving Williams B.	" .....
" 20	" ..	37294	C. A. Parent, 106 Rue St. Joseph, Quebec.	1 " ..	50	Canadian Seed Oil Co.	" .....
" 19	" ..	37295	N. Young, 111 Rue du Pont, Quebec.	1 " ..	43	" ..	" .....
" 20	" ..	37296	E. Martineau, 135 Rue St. Joseph, Quebec.	1 " ..	45	Irving Williams B.	" .....
" 21	" ..	37297	C. A. Parent, 106 Rue St. Joseph, Quebec.	1 " ..	50	Canadian Seed Oil.	" .....
DISTRICT OF EASTERN QUEBEC—							
Dec. 24	Linseed Oil.	53303	Talbot Ltd., Rimouski, P.Q..	1 pt..	17	Oil, Montreal ..	... .
" 24	Oil.....	53304	" "	1 " ..	17	" ..	.....
" 26	Linseed Oil.	53309	T. Pelletier, Fraserville, P.Q.	1 " ..	15	Livingston Linseed Oil, Montreal.	.....
" 27	" ..	53312	Union Agricole, St. Pascal, P.Q.	1 " ..	20	Sherwin-Williams, Co.,	.....
" 27	Oil.....	53313	" "	1 " ..	20	" ..	.....

SESSIONAL PAPER No. 14

LINSEED OIL.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr. of Sample at 15·5°C.	Saponification Number.	Maumene.	Spot Test.	Unsaponifiable Matter.	Time of Drying at 70°C.		
R. J. WAUGH, INSPECTOR.								
Boiled	0·935	198·9	117·5	Linseed		20 hours	46651	
"	0·935	191	112	Slight indication of mineral & other oils.	2·04	15 "	46652	Doubtful.
"	0·941	199·5	111	Indicates adulteration.	1·65	36 "	46653	"
Raw	0·934	196	116	Linseed		48 "	46654	
"	0·932	198	112	"		48 "	46655	
"	0·932	197·8	111	"		48 "	46656	
F. X. W. E. BELAND, INSPECTOR.								
Boiled	0·935	196	105	Linseed		24 hours	37292	
"	0·937	190	118	"	2·70	12 "	37293	
"	0·938	198·7	106	"		20 "	37294	
Raw	0·931	154·5	108	Indication of mineral oil.	19·76	36 "	37295	Adulterated.
"	0·935	194·6	120	Linseed		36 "	37276	
"	0·933	193·2	108	"		36 "	37297	
A. PELLETIER. INSPECTOR.								
Raw	0·934	196	114	Linseed		36 hours	53303	
Boiled	0·934	186·3	120	Mineral	5·00	30 "	53304	Doubtful.
"	0·935	176·8	128	Indication foreign oils.	5·12	15 "	53309	"
Raw	0·942	189	119	Linseed		20 "	53312	
Boiled	0·932	196·5	114	"		48 "	53313	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1913.							
Jan. 29	Linseed Oil.	51166	W. C. Webster & Sons, Coaticook.	1 qt...	25		
" 30	" .	51167	E. Boucher, St. Hyacinthe....	1 " ..	25		
" 30	" .	51168	S. Bourgeois Co., Incorporated St. Hyacinthe.	1 " ..	20		
" 29	" .	51169	W. C. Webster & Sons, Coaticook.	1 " ..	25		
" 30	" .	51170	E. Boucher, St. Hyacinthe....	1 " ..	25		
" 30	" .	51171	Beaunoyer & Lalime, St. Hyacinthe.	1 " ..	30		
DISTRICT OF MONTREAL—							
Jan. 8	Linseed Oil.	51082	H. Sylvester & fils, 1111 St. Lawrence Boulevard, Montreal.	3 pts .	45	Mount Royal Colour & Varnish Co., Ltd.	
" 8	" .	51083	The People's Hardware Co., 152 St. Lawrence Boulevard Montreal.	3 " .	45		
" 8	" .	51084	Beaunoyer & Brouillet, 1387 St. Lawrence Boulevard, Montreal.	3 " .	45	Mount Royal Colour & Varnish Co., Ltd.	
" 8	" .	51085	St. Lawrence Hardware Co., 993 St. Lawrence Boulevard Montreal.	3 " .	36	A. Ramsay Son & Co.	
" 8	" .	51086	The People's Hardware Co., 152 St. Lawrence Boulevard Montreal.	3 " .	45		
" 10	" .	51087	A. Goyette, 124 Mount Royal Ave., Montreal.	3 " .	45		
DISTRICT OF OTTAWA—							
1912.							
Dec. 27	Linseed Oil.	51677	Hull Medical Hall, Hull, P.Q.	24 oz..	40		Imperial Oil Co. Ottawa.
" 30	" .	51678	D. J. Stalker, Ottawa.....	3 bots	75	Imperial Oil Co., Ottawa.	Mfrs.
" 31	" .	51679	Mulhall Hardware Co., Ottawa.	24 oz..	16	Dom. Linseed Oil Co., Montreal.	"
" 27	" .	51680	Adam Scott, Almonte.....	1 qt..	25	Sherwin Williams Co. Montreal.	
" 30	" .	51681	Cuzner Hardware Co., Ltd.. Ottawa.	1 " ..	25	Standard Linseed Oil Co , Cleveland, U.S	
" 31	" .	51682	Mulhall Hardware Co., Ottawa.	24 oz..	16	Dom. Linseed Oil Co., Montreal.	

SESSIONAL PAPER No. 14

LINSEED OIL.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr. of Sample at 15·5° C.	Saponification Number.	Maumene.	Spot Test.	Unsaponifiable Matter.	Time of Drying at 70° C.		
J. J. COSTIGAN, ACTING INSPECTOR.								
Boiled	0·934	195·0	106	Linseed		30 hours	51166	
"	0·932	176·4	108	Mineral and other oils.	8·16	24 "	51167	Adulterated.
"	0·934	197·2	105	Linseed		30 "	51168	
Raw	0·934	196·0	116	"		36 "	51169	
"	0·937	194·6	122	"		48 "	51170	
"	0·933	194·3	114	"		36 "	51171	
J. J. COSTIGAN, INSPECTOR.								
Raw	0·935	196·5	116	Linseed		36 hours	51082	
"	0·935	193·2	110	"		48 "	51083	
Boiled	0·909	150·0	94	Mineral		24 "	51084	Adulterated.
"	0·934	191·5	122	Linseed		36 "	51085	
"	0·936	185·0	96	Indication of Foreign Oils	5·40	24 "	51086	Doubtful.
	0·936	196·2	112	Linseed		48 "	51087	
J. A. RICKEY, INSPECTOR.								
Raw	0·934	194·3	112	Linseed		40 hours	51677	
"	0·935	194·8	120	"		36 "	51678	
"	0·933	190·0	116	"		36 "	51679	
Boiled	0·938	189·3	103	"	1·79	24 "	51680	
"	0·941	162·0	99	Mineral	15·30	24 "	51681	Adulterated.
"	Broken.						51682	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF KINGSTON—				
1912.							
Dec. 16	Linseed Oil.	53036	W. A. Mitchell, Kingston....	3 pts.	45	.....	Dalton & Son, Kingston.
" 16	" .	53037	A. Chown & Co., Kingston...	3 " .	23	Livingston, Montreal.	.....
" 16	" ..	53038	J. B. Bunt & Co., Kingston..	3 " .	45	Southern States Turpentine Co., Cleveland.	.....
" 16	" ..	53039	W. A. Mitchell, Kingston....	3 " .	45	.....	Dalton & Son, Kingston.
" 16	" ..	53040	A. Chown & Co., Kingston. .	3 "	24	Shering, Montreal.	.....
" 16	" .	53041	J. B. Bunt & Co., Kingston..	3 " .	45	Livingston, Montreal.	.....
			DISTRICT OF TORONTO—				
Dec. 19	Linseed Oil.	49496	P. H. Finkle, 1520 Queen St. west, Toronto.	3 pts.	40	.....	Sanderson Percy Co., Ltd., Toronto.
" 27	Oil.....	49497	Howard Furnace Hardware Co., 371 Yonge St., Toronto.	1 qt..	35	.....	Reynolds Bros., Toronto.
" 27	"	49498	Geo. Pearsall & Son, 417 Yonge St., Toronto.	1 " ..	35	.....	The Sherwin-Williams Co., Toronto.
" 24	"	51581	Geo. Matthewson, 734 Queen St. east, Toronto.	1 " ..	25	.....	Turpentine Producing Agency, Toronto.
" 26	"	51582	May Bros., 1680 Dundas St. west, Toronto.	1½ pt.	45	.....	" ..
" 27	"	51583	T. W. Brown, 242 Carleton St., Toronto.	1 qt..	50	.....	" ..
			DISTRICT OF VICTORIA—				
1913.							
Jan. 21	Linseed Oil.	53513	E. B. Marion & Co., 1202 Wharf St., Victoria, B.C.	3 pts.	....	Sherwin-Williams, Montreal.	.....
" 21	" ..	53514	P. McQuade & Son, 1214 Wharf St., Victoria, B.C.	3 " .	65	J. T. Donald & Co., Glasgow.	.....
" 21	" ..	53515	B.C. Hardware Co., Ltd., 825 Fort St., Victoria.	3 " .	40	.....	B. A. Paint Co., Victoria, B.C.
" 21	" ..	53516	E. B. Marvin & Co., 1202 Wharf St., Victoria.	3 " .	....	Sherwin-Williams, Montreal.	.....
n 21	" ..	53517	P. McQuade & Son, 1214 Wharf St., Victoria.	3 " .	60	J. T. Donald & Co., Glasgow.	.....
" 21	" ..	53518	B.C. Hardware Co., Ltd., 825 Fort St., Victoria.	3 " .	35	.....	B. A. Paint Co., Victoria, B.C,

SESSIONAL PAPER No. 14

LINSEED OIL.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr. of Sample at 15·5° C.	Saponification Number.	Maumene.	Spot Test.	Unsaponifiable Matter.	Time of Drying at 70° C.		
JAS. HOGAN, INSPECTOR.								
Raw	0·934	197·1	112	Linseed		48 hours	53036	
"	0·934	195·6	110	"		36 "	53037	
"	0·932	159	106	Indication rosin oil.	19·50	48 "	53038	Adulterated.
	0·934	189	118	Indicates adulteration.	8·34	20 "	53039	"
	0·937	189·7	119	Linseed	2·66	15 "	53040	
	0·934	194	115	"		15 "	53041	
H. J. DAGER, INSPECTOR.								
Raw	0·931	194·6	120	Linseed		48 hours	49496	
"	0·925	149	91	Indication mineral oil.		36 "	49497	Doubtful.
"	0·932	194·9	110	Linseed		48 "	49498	
Boiled	0·933	157·8	101	Mineral		24 "	51581	Doubtful.
"	0·924	156	103	"		36 "	51582	Adulterated.
"	0·930	147·7	90	"		24 "	51583	Doubtful.
D. O'SULLIVAN, INSPECTOR.								
Raw	0·933	194	115	Linseed		36 hours	53513	
"	0·931	194·3	129	"		48 "	53514	
"	0·930	194·3	128	"		48 "	53515	
Boiled	0·933	189·9	124	"		24 "	53516	
"	0·946	189·3	112	Indication mineral oil.	5·00	30 "	53517	Doubtful.
"	0·936	195·6	117	Mineral and other oils.	1·94	20 "	53518	"

APPENDIX J.

BULLETIN No. 267—MEAT EXTRACTS.

Ottawa, Sept. 10, 1913.

Wm. Himsworth, Esq.,
Deputy Minister,
Inland Revenue.

Sir,—I beg to hand you a report of eighty (80) samples purchased throughout Canada, as Meat Extracts, in February and March of last year. The necessity of taking in hand the analysis of articles which could be less readily preserved, or whose examination was more pressingly demanded, caused this collection to be held over for the long period of eighteen months. While it is believed that the nature of the article, the care observed in its packing, and in its preservation while in our possession, have prevented any important deterioration, it is but right to say that the analytical results now furnished you must be regarded rather as a study of the subject of Meat Extracts, than as a legal inspection of the article as found on the market.

Our last published work on Meat (Beef) Extracts was issued in April, 1899, as Bulletin No. 63, and was as complete a presentation of the subject as was, at that time, possible. Since the date named a great deal of investigatory work has been put on record both by The United States of America (Bureau of Chemistry) and by European laboratories. The Meat Extracts of Commerce, so far as these possess real value, are found to be characterized in such a way as to make it possible to establish standards of value, below which an Extract cannot be recognized as genuine. An Order-in-Council dated 24th October, 1910, and passed conformably to Sec. 26 of the Adulteration Act, defines Meat Extracts, and allied products, as below:—

C.—Meat Extracts, Meat Peptones, Gelatin, Etc.

1. Meat extract is the product obtained by extracting fresh meat with water and concentrating the liquid portion by evaporation after the removal of fat, and contains not less than seventy-five (75) per cent of total solids of which not over twenty-seven (27) per cent is ash, and not over twelve (12) per cent is sodium chloride (calculated from the total chlorine present), not over six-tenths (0·6) per cent is fat and not less than eight (8) per cent is nitrogen. The nitrogenous compounds contain not less than forty (40) per cent of meat bases and not less than ten (10) per cent of kreatin and kreatinin.

2. Fluid meat extract is identical with meat extract except that it is concentrated to a lower degree and contains not more than seventy-five (75) and not less than fifty (50) per cent of total solids.

3. Bone extract or stock is the product obtained by extracting clean, fresh, trimmed bones, of animals in good health at the time of slaughter, with boiling water and concentrating the liquid portion by evaporation, after removal of the fat, and contains not less than seventy-five (75) per cent of total solids.

4. Fluid bone extract is identical with bone extract except that it is concentrated to a lower degree and contains not more than seventy-five (75) and not less than fifty (50) per cent of total solids.

5. Meat juice is the fluid portion of muscle fibre, obtained by pressure or otherwise, and may be concentrated by evaporation at a temperature below the coagulating point of the soluble proteids. The solids contain not more than fifteen (15) per cent of ash, not more than two and five-tenths (2·5) per cent of sodium chloride (calculated from the total chlorine present,) not more than four (4) nor less than two (2) per cent of phosphoric acid (P_2O_5), and not less than twelve (12) per cent of nitrogen. The nitrogenous bodies contain not less than thirty-five (35) per cent of coagulable proteids and not more than forty (40) per cent of meat bases.

6. Peptones are products prepared by the digestion of proteid material by means of enzymes or otherwise, and contain not less than ninety (90) per cent of proteoses and peptones.

It will be seen that Meat Extract is found in the market either as a solid mass, usually in cubes; as what may be called the normal Extract containing about 75 per cent of solids; or as a fluid Meat Extract, with solids below 75 per cent. Our Standards require a minimum of 50 per cent. Of the present collection we find:—

Solid Meat Extracts	12
Normal " "	25
Fluid " "	42
Meat Juice	1
	80

The ash, representing mineral matters of the meat and added common salt, should not exceed 27 per cent of the total solids; and the salt (sodium chloride) should not exceed 12 per cent.

In all the solid Extracts, the ash and salt exceed the limit named by Our Standards for Meat Extract. Perhaps these Standards should not be held to apply to Meat Extract in the solid form. This is a point for further consideration.

Fat is required to be less than six-tenths of one per cent (0·6) of the total solids. The Petrolic Ether Extract shown in the table, is essentially fat, and is decidedly excessive in 17 samples. With few exceptions these are solid Extracts, and it is possible that the limit for fat may have to be reconsidered in the case of this kind of Extract.

The most important datum is the content of nitrogen. Nitrogen is required to constitute at least 8 per cent of the total solid matter of the extract. This requirement is met by all but four of the samples reported. Two of these are not sold as Meat Extracts (46159, 50139), but as Concentrates of Meat and Vegetables. No. 47014 is slightly lower than Standard requirements, and 39056 is distinctly below the Standard. Nitrogen is present in various combinations, the characteristic, and practically the only ones giving value to these meat extracts being the group known as 'Meat Bases.' These are required to amount to at least 40 per cent of the total nitrogenous compounds.

Many of the samples which meet requirements as to total nitrogen fall short of the Standard for Meat Extracts in this respect. This is due to the fact that proteid nitrogen, in form of pulverized beef, has been incorporated, as shown by the large percentage of nitrogen in insoluble compounds. While the true Meat Extracts show less than one-half of one per cent. of nitrogen in insoluble forms, the samples in question give from one to two per cent. of insoluble nitrogen.

The Kreatin and Kreatinin should amount to at least one-fourth of the total meat bases. The minimum limit is greatly exceeded in the genuine Extracts; but is not reached in those of low grade. In order that this fact may be better shown, I have arranged in subsidiary tables the samples herein reported, placing together those representing the same brand. It will be noted that most of these brands are manufactured with intelligence and care, as shown by their mean composition and by the uniformity obtaining among the samples analysed. The notes accompanying subsidiary tables make it unnecessary to say anything more than that this work will be of use to us in further investigation of the subject; and I beg to recommend its publication as Bulletin No. 267.

I have the honour to be, Sir,
Your Obedient Servant,

A. McGILL,
Chief Analyst.

SUBSIDIARY TABLES.

ARMOUR'S EXTRACT.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
40834...	21·75	78·25	0·75	19·76	5·19	8·764	0·273	4·557	3·934	0·78	0·48
45617...	21·65	78·35	1·00	19·40	4·49	8·764	0·322	4·536	3·906	0·81	0·42
46160...	22·40	77·60	1·00	19·20	4·91	8·540	0·189	4·389	3·962	0·70	0·60
47895...	23·30	76·70	0·65	20·50	5·11	8·792	0·202	4·726	3·864	0·67	0·53
48100...	23·90	76·10	1·00	19·30	5·23	8·761	0·266	4·886	3·612	0·62	0·61
49111...	21·35	78·35	0·75	19·80	5·19	8·204	0·315	4·501	3·388	0·60	0·74
49267...	22·25	77·75	0·90	20·55	5·58	8·484	0·364	4·480	3·640	0·65	0·55
49538...	24·30	75·70	1·10	19·00	4·93	8·456	0·231	4·725	3·500	0·73	0·71
49536...	21·50	78·50	1·05	19·30	5·72	8·428	0·203	4·585	3·640	0·65	0·68
50136...	21·00	79·00	0·85	19·40	5·28	8·596	0·308	4·480	3·808	0·57	0·62
38313...	23·50	76·50	1·05	20·30	5·32	8·260	0·399	4·194	3·667	0·63	0·60
Mean..	22·44	77·56	0·92	19·68	5·17	8·541	0·279	4·542	3·720	0·67	0·59

Sold as (normal) meat Extract. Fat is very slightly in excess of standard. Otherwise requirements of standards are fully met.

BEEFENE.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat bases.)		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c	p.c.	p.c.	p.c.	p.c.
39052...	45·90	54·10	1·00	14·10	8·12	5·488	1·764	2·384	1·340	0·45	0·13
38312...	45·25	54·75	1·35	14·62	8·39	5·684	1.361	3·021	1·302	0·53	0·10
Mean.	45·57	54·43	1·17	14·36	8·25	5·586	1·562	2·703	1·321	0 49	0 12

A Fluid Meat Extract. Fat slightly in excess, also salt. Meat base nitrogen somewhat low.

BOVIN CUBES.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
50139. . .	7·00	93·00	2 60	43·70	19·63	3·324	0·105	1 469	1·750	0·21	0·18

A solid meat Extract. Perhaps the standards for normal meat extract should not apply. Ash, salt and fat are decidedly higher than these standards permit. Total nitrogen is below standard for normal meat extract; meat base nitrogen is proportionately up to requirement. Vegetable matter is acknowledged to be present.

BOVRIL EXTRACT.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
47013 . . .	45·52	54·48	0·55	14·98	8·60	5·432	1·015	2·401	2·016	0·54	0 26
48079 . .	45·25	54·75	0·75	14·18	9·00	5·460	1·029	2 457	1 974	0·61	0·14
49357 . . .	45 15	54·85	0 95	14·63	8·44	5 208	1·085	2·289	1·834	0·54	0·30
49359 . .	41·05	58·95	1·05	15·15	9·10	5·401	1·057	2 401	1 946	0·54	0 36
47892 . . .	45·45	54·55	0 90	15·45	9 30	5·541	1·092	2·492	1 960	0·53	0·27
38311 . . .	43·15	56·85	0·60	14·40	8·34	5·152	1·001	1·897	2·254	0·60	0·23
45619 . . .	44·23	55 77	0·55	14 90	8·61	5·152	1·078	2 072	2 002	0·56	0·39
50138 . . .	43 10	56·90	0 65	15·33	9·11	5·376	1·106	2·212	2·058	0·64	0·23
40831 . . .	41·24	58·76	0·95	14·35	8 83	5·348	1·155	2·193	2 000	0·62	0·14
49537 . . .	45 15	54 85	1·05	14·90	8·35	5·010	1 085	2 135	1·820	0 67	0·38
49539 . . .	41 90	58·10	0·75	14·48	8·90	5·040	1·099	2·009	1·932	0·64	0·30
49540 . . .	44·95	55·05	1·00	15·20	8 88	5·572	1 057	2·639	1·876	0·57	0·36
44137 . . .	44·75	55·25	1·00	14·99	8 39	5·628	1·036	2·632	1·960	0 62	0 27
48601 . . .	40·25	59·75	0 75	14 36	8·71	5·124	1·008	2·156	1·960	0·57	0·49
39053 . . .	40·75	59·25	0·65	15·23	8·63	5·208	0·994	2·310	1·904	0 73	0·16
49113 . .	43 00	57 00	0·80	15·67	9 15	5 656	1·085	2·550	2 021	0·64	0·24
49615 . . .	44·70	55·30	0·85	15·30	8·90	5·628	1·090	2 498	2·040	0·76	0·28
Mean . . .	43·51	56·49	0·75	14·91	8·77	5·351	1·063	2·331	1·957	0·61	0·30

A Fluid Meat Extract. Salt slightly high. Meat base nitrogen slightly low

BRANDS ESSENCE.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
38310 . .	90·30	9·70	0·90	1·40	0·98	1·652	0·044	0·343	1·265	Trace.	Trace.

Sold as Essence of Beef or Meat Juice, and meets requirements of Standard.

DAVIES EXTRACT.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
49358 . . .	20·80	79·20	0·25	15·12	8·32	9·184	0·196	5·088	4·900	1·30	0·80

Judged as normal Beef Extract. Fully meets standard requirements.

GILMOUR EXTRACT.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
9056. . .	40·75	59·25	1·50	22·60	6·70	2·968	0·378	2·666	0·924	0·33	0·14

A Fluid Beef Extract. Ash slightly high; also fat. Total nitrogen and meat base nitrogen very low.

IVELCON—CUBES.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
46159. .	9·25	90·75	4·45	53·65	23·93	2·996	0·133	0·973	1·890	0·33	0·11

A Solid Meat Extract. Perhaps the standards for normal meat extract should not apply. Ash, salt and fat are decidedly higher than these standards permit. Total nitrogen is below standard for normal meat extract; meat base nitrogen is proportionately up to requirement. The presence of vegetables is acknowledged.

LEMCO.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p,c.	p.c.	p.c.
46156. . .	24·80	75·20	0·55	18·00	3·05	10·610	0·361	5·264	5·012	0·70	1·50
48603. . .	24·50	75·50	0·85	18·50	2·68	9·884	0·402	4·610	4·872	0·72	1·27
47012. . .	24·40	75·60	0·50	18·20	3·07	10·388	0·434	5·096	4·858	0·72	1·47
37375. .	24·20	75·80	0·35	18·70	2·74	10·360	0·392	4·942	5·026	0·75	1·76
Mean.	24·48	75·52	0·56	18·35	2·88	10·318	0·398	4·978	4·942	0·72	1·50

Sold as (normal) Beef Extract. Fully meets requirements of the standards.

NA-DRU. CO.—EXTRACT.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p c.	p.c.	p.c.	p.c.	p.c.	p.c.
45620 .	24·20	75·80	0·50	22·40	13·69	7·000	0·125	4·453	2·422	0·18	0·15
47884 . .	24·15	75·85	0·75	21·99	13·70	6·692	0·441	3·661	2·590	0·17	0·05
48098. . .	24·05	75·95	1·20	22·01	13·88	6·524	0·326	3·622	2·576	0·20	0·00
48488. .	25·90	74·10	0·40	22·75	14·09	7·224	0·658	4·466	2·100	0·13	0·15
Mean	24·57	75·43	0·66	22·26	13·90	6·860	0·387	4·050	2·423	0·17	0·09

Sold as (normal) Beef Extract. Salt slightly in excess and nearly meets requirements in total and meat base nitrogen. The Kreatin and Kreatinin are, however, distinctly deficient in amount.

NUTRI-OX EXTRACT.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
38314 ...	45·35	55·65	2·35	16·30	9·69	4·340	0·546	1·302	2·492	0·50	0·22

A Fluid Beef Extract. Fat and salt are somewhat high. Otherwise meets the standards.

OXO-CUBES.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
47015 ...	11·15	88·85	3·35	34·90	26·50	7·280	1 628	3 328	2 324	0·53	0·55
49361 ...	11·10	88·90	2·90	35·05	25·77	7·868	1·778	3·511	2 576	0·57	0·38
48087 ...	10·45	89·55	3·45	35·05	24·43	7·616	1·610	3·346	2·660	0·70	0·38
50137 . .	11·95	88·05	3·55	34·80	24·88	7·924	1·624	3·794	2 506	0 62	0·32
47011 ...	11·00	89·00	3·00	34·55	25·07	7·672	1·631	3·437	2·604	0·67	0·38
45616 ...	10 10	88·90	3·25	33·50	25·27	7·476	1·603	3·283	2·590	0·59	0·56
46158 ...	10·65	89·35	3·70	34·05	24·87	7·672	1·582	3·486	2·604	0·67	0·45
48602 ...	12·05	87·95	3 85	35·20	24·74	7·476	1·582	3·612	2·282	0·70	0·44
48202 ...	10·75	89·25	3·50	35 05	25·62	7·420	1·589	3·311	2·520	0·70	0·34
Mean ...	11·02	88·98	3·39	34·68	25·24	7·600	1 625	3·456	2·519	0 63	0·42

A solid meat extract. Perhaps the standards for normal meat extract should not apply. Ash, salt and fat are decidedly higher than these standards permit. Total nitrogen meets standard requirements. Meat base nitrogen is relatively low.

OXO FLUID BEEF.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
44138 ...	31·75	65·25	1 10	19·90	9·78	6·160	0·812	3·066	2·282	0·76	0·18
47886 ...	34·10	65·90	1·15	19·39	9·33	5 852	0·840	2·534	2·478	0·54	0·26
40833 ...	35 00	65·00	1·25	19·21	9 19	6·048	0·840	2·828	2·380	0 64	0·23
49114 ...	34·10	65·90	1·00	19·69	9·45	5·740	0·840	2·548	2·352	0 62	0·30
44136 ...	34·70	65·30	1·30	19·30	9·28	5·964	0·994	2·478	2·492	0 50	0·44
49360 ...	34·90	65·10	1·30	19·65	9·65	6·244	1·000	2·752	2·492	0·50	0·46
47864 ...	33 30	66·70	1·15	20·20	9·82	5·992	0·728	2·772	2 492	0·62	0·32
Mean...	34·40	65·60	1·17	19·62	9·50	6·000	0·865	2·711	2·424	0·63	0·31

A Fluid Meat Extract. Fat, ash and salt are slightly too high. Otherwise meets standard requirements.

PORTRAIT BRAND EXTRACT.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p c.	p.c.	p.c.	p.c.	p.c.	p.c.
40835 ...	19·55	80 45	0·95	28·30	12·20	8·960	0·252	3·598	5·110	2 32	0·70

Sold as (normal) Meat Extract. Slight excess of ash; otherwise meets all requirements.

RAMONIE.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
37373. ...	17·33	82·67	0·70	22·80	4·37	8·962	0·261	3·925	4 774	2 32	1·16
37374. ...	17·70	82·30	0·90	23·15	5·05	8·840	0·350	3·632	4·858	2·32	0·70
37376. ...	17·05	82·95	0·55	23·25	4·52	8·960	0·335	3·641	4·984	2·12	1·47
37377. ...	17·85	82·15	0·85	22·75	5·21	9·268	0·364	4·116	4·788	0·62	2·15
Mean.	17·48	82·52	0·75	22·98	4·79	9·007	0·327	3·829	4·851	1·84	1·17

Sold as (normal) Beef Extract. Meets requirements of the standard.

RED CROSS EXTRACT.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
39054. .	37·70	62·30	1·15	18·19	7·62	7·280	2·128	3·890	1·260	0 10	0·04
40832. .	42 00	58·00	1·25	17·83	7·89	5·292	1·505	2·457	1·330	0·40	0·32
39055. .	55·60	44 40	1·15	19 00	8·13	4·592	1·652	2·173	0·767	0 13	0·07

NOTE.—Three different grades.

Fluid Meat Extracts, sold as different grades. In all the fat and ash are slightly too high ; and meat base nitrogen too low. Kreatin and Kreatinin are low, except in No. 40832.

VIGORAL EXTRACT.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
48605. .	50·70	19·30	0·35	14·60	8·20	4·032	0·350	1·288	2·394	0·60	0·20
49112. .	50·80	49·20	0 25	15 23	8·60	3·808	0·448	1·330	2·030	0·58	0·21
49631 . .	52·20	47·80	0·30	15·40	8·33	3 752	0·175	1 673	1·904	0·36	0·16
Mean.	51·23	48·77	0·30	15 07	8·37	3·864	0·324	1 431	2·109	0·51	0·19

A Fluid Meat Extract. Total solids slightly below standard ; ash and salt slightly high. Otherwise practically meets requirements.

VIMBOS—CUBES.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt by Tannin Salt.	Tannin Salt Filtrate. (Meat Bases.		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
47014. . .	7·40	92 60	1·70	34·75	19·36	6·860	2·625	1·953	2·282	0·57	0·33

A solid meat extract. Perhaps the standards for normal meat extract should not apply. Ash, salt and fat are decidedly higher than these standards permit. Total nitrogen nearly meets standard requirements ; meat base nitrogen is somewhat low.

VIMBOS EXTRACT.

Number of Sample.	Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.
						Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate. (Meat Bases).		
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
44139. . .	33·02	66·98	0·65	17·05	8·27	7·610	1·180	4·819	1·631	0·57	0·28
45618. . .	33·22	66·78	0·55	17·24	8·33	7·500	1·160	4·790	1·550	0·70	0·23
50140. . .	33·00	67·00	0·55	17·80	8·51	7·530	1·100	4·862	1·568	0·68	0·28
49110. . .	33·12	66·88	0 60	17·12	8·10	7·220	1·130	4·620	1·470	0 59	0·53
46157. . .	32·22	67 78	0 60	17·90	6·72	7·220	1·300	4·400	1·520	0 57	0·14
44140. . .	32 40	67·60	0·65	17·00	7·48	7·420	1·510	4·286	1·624	0·62	0·30
48604. . .	32·97	67·03	0·50	17·00	7·48	7·080	1·580	3·820	1·680	0·48	0·51
49605. . .	33 00	67·00	0 75	17·45	8·99	7 280	1·393	4·267	1·620	0·76	0·04
Mean	32·87	67·13	0·60	17·32	7·98	7·357	1·294	4·480	1·583	0·60	0 29

A Fluid Meat Extract. Meets standards except in meat base nitrogen, which is decidedly low.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA—								
1912.								
Feb. 9	Meat Extract.	47011	P. H. Holdsworth, Digby, N.S.	3 tins.	30	Oxo Co., London, Eng.	Mfrs.	
" 16	"	47012	Nat. Drug & Chem. Co., Digby, N.S.	3 "	125	Leibigs, London, Eng.	"	
" 16	"	47013	" "	3 ozs.	50	Bovril Ltd., London, Eng.	"	
" 19	"	47014	J. McD. Taylor, Digby, N.S.	3 pkgs	30	Bovril Ltd., Montreal.	A. B. Mitchell, Halifax, N.S.	
" 29	"	47015	S. A. Rounsefell, Lunenburg, N.S.	1 "	25	Oxo Co., London, Eng.	Mfrs.	
DISTRICT OF PRINCE EDWARD ISLAND—								
Feb. 6	Meat Extract.	46156	J. G. Jamieson, Ch'town., P.E.I.	3 pkgs	105	Leibigs Ltd., London, Eng.		
6	"	46157	Apothecaries Hall Co., Charlottetown, P.E.I.	3 "	105	Bovril Ltd., Montreal.		
" 7	"	46158	Stewart & Son, Charlottetown, P.E.I.	3 "	30		Corneille, David & Co., Toronto.	
" 7	"	46159	Beer & Goff, Charlottetown, P.E.I.	3 "	90	Alpln & Barrett, Yeovil, England.		
" 9	"	46160	John McKeuna, Ch'town., P E.I.	3 "	105	Armours Ltd., Toronto.		
DISTRICT OF NEW BRUNSWICK—								
Feb. 6	Meat Extract.	45616	H. W. Cole, Ltd., St. John, N.B.	3 tins.	30	Oxo, London, Eng.		Oxo
" 6	"	45617	Pidgeon & Co., St. John, N.B.	3 pkgs	75	Armours Ltd., Toronto.		Armours
" 14	"	45618	Nat. Drug & Chem. Co., St. John, N.B.	3 tins.	82	Bovril Ltd., Montreal.		Vimbos
" 14	"	45619	" "	3 jars.	50	"		Bovril
" 13	"	45620	Fairweather Bros., Moncton, N.B.	3pkgs	75	Nat. Drug & Chem. Co. of Canada.		Extract of Beef.

SESSIONAL PAPER No. 14

MEAT EXTRACTS.

Results of Analysis.													
					Nitrogen as								
Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate. (Meat bases)	Kreatinin.	Kreatin.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.												
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
11 00	89·00	3·00	34·55	25·07	7·672	1·631	3·437	2·604	0 67	0·38	47011	Cubes. Ash and salt too high. Fat too high.
24·40	75·60	0·50	18·20	3·07	10·388	0·434	5·096	4·858	0·72	1·47	47012	
45 52	54·48	0·55	14·98	8·60	5·432	1·015	2·401	2 016	0·54	0·26	47013	Fluid Meat Extract.
7·40	92·60	1·70	34·75	19·36	6·860	2·625	1·953	2·282	0·57	0·33	47014	Solid Extract: Cubes. Ash and salt too high. Fat too high. Total nitrogen low.
11·15	88 85	3·35	34·90	26·50	7·280	1·628	3·328	2·324	0·53	0·55	47015	Cubes. Ash and salt too high. Fat too high.
WM. A. WEEKS, INSPECTOR.												
24·80	75·20	0·55	18·00	3·05	10·640	0·364	5·264	5·012	0·70	1·50	46156	
32·22	67 78	0·60	17·90	6·72	7·220	1·300	4·400	1·520	0·57	0·14	46157	Fluid Meat Extract.
10·65	89·35	3·70	34·05	24·87	7·672	1·582	3·486	2·604	0·67	0·45	46158	Cubes. Ash and salt too high. Fat too high.
9·25	90·75	4 45	53·65	23·93	2·996	0·133	0·973	1·890	0·33	0·11	46159	Solid Extract: Cubes. Ash and salt much too high. Fat too high. Nitrogen too low. Contains vegetables by acknowledgement.
22·40	77·60	1·00	19·20	4 91	8·540	0·189	4·389	3·962	0·70	0 60	46160	
J. C. FERGUSON, INSPECTOR.												
10·10	88·90	3·25	33·50	25·27	7·476	1·603	3·283	2·590	0·59	0·56	45616	Cubes. Ash and salt too high. Fat too high.
21·65	78·35	1·00	19·40	4·49	8·764	0·322	4·536	3·906	0·81	0·42	45617	
33·22	66·78	0·55	17·24	8·33	7·500	1·160	4·790	1·550	0·70	0·23	45618	Fluid Meat Extract.
44·23	55·77	0 55	14·90	8·61	5·152	1·078	2·072	2·002	0·56	0·39	45619	" "
24·20	75·80	0·50	22·40	13·69	7·000	0·125	4·453	2·422	0·18	0·15	45620	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
			DISTRICT OF QUEBEC—					
1912.								
Feb. 5	Meat Extract.	37373	V. Giroux, 16 Rue St. Pierre, Quebec.	3 pkgs	150	Australian Meat Co.	Watt, Scott & Goodacer.	.....
" 5	" .	37374	Dr. Ed. Morin, 113 Cote Lamontagne, Quebec.	3 " .	105	" ..	" ..	....
" 5	" .	37375	Laroche Co., 4 Rue La Fabrique, Quebec.	3 " .	240	Leibigs, London, Eng.	Lyman's Ltd..	....
" 5	" .	37376	J. E. Llvernois, St. Jean & Bonvillard, Quebec.	3 " .	75	Australian Meat Co.	Mfrs.....	....
" 5	" .	37377	F. C. Lachevrotiere, 224 Rue St Jean.	3 " .	120	" ..	W. Brunet & cie, Quebec.	....
			DISTRICT OF ST. HYACINTHE—					
Feb. 20	Meat Extract.	39052	Ed. Leblanc, St. Jean	3 tins.	135	American Fluid Beef Co.	....	.....
" 21	" .	39053	Alb. Pratte, Magog..	3 " .	75	Bovril Ltd., London.	....	... .
" 21	" .	39054	Nap. Hamel, Magog.	3 " .	100	Colonial Fluid Beef Co., Montreal.	.....	.....
" 27	" .	39055	Jos. Picard, St. Guillaume.	3 " .	300	" .	.....	. ...
Mar. 6	" .	39056	Neal Bros., Waterloo	3 " .	45	.....	From stock of A.C.Gilmore, Waterloo.	....
			DISTRICT OF MONTREAL—					
Feb. 16	Meat Extract.	40831	Bovril Ltd., Montreal	3 bots	70	Vendors	....	Bovril.....
" 16	" .	40832	Colonial Fluid Beef & Specialty Co., Montreal.	3 " .	45	"	....	Red Cross....
" 16	" .	40833	B. Fox, 168 St. Lawrence Boulevard, Montreal.	3 " .	75	....	.....	Oxo.... .....
" 16	" .	40834	B. Kam. 395 St. Lawrence Boulevard, Montreal	3 " .	75	Armour's Ltd., Toronto.	....	....
" 16	" .	40835	L. O. D'Argencourt, 379 St. Denis St., Montreal.	3 " .	105	.. ..	.....	Leibigs.... ..

SESSIONAL PAPER No. 14

MEAT EXTRACTS.

Results of Analysis.													
					Nitrogen as								
Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Fate. (Meat bases)	Kreatinin.	Kreatin.	No. of Sample	Remarks and Opinion of the Chief Analyst.
F. X. W. E. BELAND, INSPECTOR.												
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
17·33	82·67	0·70	22·80	4·37	8·962	0·261	3·925	4·774	2·32	1·16	37373	
17·70	82·30	0·90	23·15	5·05	8·840	0·350	3·632	4·858	2·32	0·70	37374	
24·20	75·80	0·35	18·70	2·74	10·360	0·392	4·942	5·026	0·75	1·76	37375	
17·05	82·95	0·55	23·25	4·52	8·960	0·335	3·641	4·984	2·12	1·47	37376	
17·85	82·15	0·85	22·75	5·21	9·268	0·364	4·116	4·788	0·62	2·15	37377	
J. C. ROULEAU, INSPECTOR.												
45·90	54·10	1·00	14·10	18·12	5·488	1·764	2·384	1·340	0·45	0·13	39052	Fluid Meat Extract. Salt too high.
40·75	59·25	0·65	15·23	8·63	5·208	0·994	2·310	1·904	0·73	0·16	39053	" "
37·70	62·30	1·15	18·19	7·62	7·280	2·128	3·890	1·260	0·10	0·04	39054	" "
55·60	44·40	1·15	19·00	8·13	4·592	1·652	2·173	0·767	0·13	0·07	39055	" " Solids too low.
40·75	59·25	1·50	22·60	6·70	2·968	0·378	2·666	0·924	0·33	0·14	39056	Fluid Meat Extract. Fat too high. Nitrogen too low.
J. J. COSTIGAN, INSPECTOR.												
41·24	58·76	0·95	14·35	8·83	5·348	1·155	2·193	2·000	0·62	0·44	40831	Fluid Meat Extract.
42·00	58·00	1·25	17·83	7·89	5·292	1·505	2·457	1·330	0·40	0·32	40832	" "
35·00	65·00	1·25	19·21	9·19	6·048	0·840	2·828	2·380	0·64	0·23	40833	" "
21·75	78·25	0·75	19·76	5·19	8·764	0·273	4·557	3·934	0·78	0·48	40834	
19·55	80·45	0·95	28·30	12·20	8·960	0·252	3·598	5·110	2·32	0·70	40835	

BULLETIN No. 267—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer of Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF OTTAWA—								
1912.								
Feb. 12	Meat Extract.	50136	Ellis Bros., Somerset St., Ottawa.	3 jars.	75	Armour's Ltd., Toronto.	Mfrs.....	Armour's. Made from finestquality of fresh beef.
" 12	" .	50137	Wm. York, Somerset St., Ottawa.	3 box's	30	.....	Corneille Davis & Co., Toronto.	Oxo Cubes....
" 12	" .	50138	T. Bowman, Somerset St., Ottawa.	3 bots.	75	Bovril Ltd., London, Eng.	F. J. Castle & Co., Ottawa	Bovril.....
" 19	" .	50139	Jos. P. Valiquette, Dalhousie St., Ottawa.	3 tins.	75	E. S. Burnham Co., New York.	S. J. Major, Ltd., Ottawa	Bovim Highly concentrated extract of meat and vegetables.
" 20	" .	50140	Bryson Graham, Ltd. Ottawa.	3 " .	69	Bovril Ltd., Montreal.	Mfrs.....	Johnston's Fluid Beef.
DISTRICT OF KINGSTON—								
Feb. 5	Meat Extract.	49536	H. M. Stover, Kingston.	3 pkgs	75	Armour's, Toronto.	.....	....
" 5	" .	49537	W. J. Arnill, Kingston.	3 " .	75	Bovril, London	.....	....
" 7	" .	49538	W. D. Stephens, Port Hope.	3 " .	75	Armour's, Toronto.	.....	....
" 8	" .	49539	J. E. Lillico, Peterboro.	3 " .	60	Bovril..	.....	....
" 8	" .	49540	A. Pearson, Peterboro.	3 "	105	"	.....	....
DISTRICT OF TORONTO—								
Feb. 7	Meat Extract.	49357	Geo. Harding, 227 King St., Hamilton.	3 bots.	60	Bovril Ltd., London.	.....	Bovril.....
" 17	" .	49358	The Wm. Davies Co., Ltd., 521 Queen St. east, Toronto.	3 pkgs	30	Vendors	.....	Solid Beef Extract.
" 17	" .	49359	J. E. Sweet, 481 Queen St., east, Toronto.	3 " .	60	.....	Unknown	Bovril.....
" 20	" .	49360	J. A. Armour, Owen Sound.	3 bots.	60	.....	Corneille, David & Co., Toronto.	Oxo.....
" 28	" .	49361	F. T. Higgins, 808 Queen St. east, Toronto.	3 pkgs	30	.....	Wenen Bros., Toronto.	Oxo cubes ...

SESSIONAL PAPER No. 14

MEAT EXTRACTS.

Results of Analysis.												Remarks and Opinion of the Chief Analyst.
Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Kreatinin.	Kreatin.	No. of Sample.	
					Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate. (Meat bases)				
J. A. RICKEY, INSPECTOR.												
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
21·00	79·00	0 85	19·40	5·28	8·596	0·308	4 480	3·808	0·57	0·62	50136	
11·95	88·05	3·55	34·80	24·88	7·924	1·624	3·794	2·506	0·62	0 32	50137	Cubes. Ash and salt too high. Fat too high.
43·10	56·90	0·65	15·33	9·11	5·376	1·106	2·212	2·058	0·64	0·23	50138	Fluid Meat Extract.
7 00	93·00	2 60	43·70	19·63	3·321	0·105	1·469	1·750	0 21	0·18	50139	Meat and vegetables, cubes. Ash and salt too high. Fat too high. Nitrogen too low. Contains vegetables by acknowledgment.
33·00	67·00	0·55	17·80	8·51	7·530	1 100	4·862	1·568	0 68	0·28	50140	Fluid Meat Extract.
JAS. HOGAN, INSPECTOR.												
21·50	78·50	1·05	19·30	5 72	8·428	0·203	4·585	3 640	0·65	0·68	49536	
45·15	54·85	1·05	14·90	8 35	5·040	1·085	2·135	1·820	0 67	0·38	49537	Fluid Meat Extract.
24·30	75·70	1·10	19·00	4·93	8·456	0·231	4·725	3·500	0·73	0·71	49538	
41·90	58·10	0·75	14·48	8·90	5·040	1·099	2·009	1·932	0·64	0·30	49539	Fluid Meat Extract.
44·95	55·05	1·00	15·20	8·88	5 572	1·057	2·639	1·876	0·57	0·36	49540	" "
H. J. DAGER, INSPECTOR.												
45 15	54·85	0·95	14·63	8·44	5·208	1·085	2·289	1·834	0·54	0·30	49357	Fluid Meat Extract.
20·80	79·20	0·25	15·12	8·32	9·184	0·196	5·088	4·900	1·30	0 80	49358	
41·05	58·95	1·05	15·15	9·10	5·404	1·057	2·401	1·946	0·54	0·36	49359	Fluid Meat Extract.
34·90	65·10	1·30	19·65	9·65	6 244	1·000	2 752	2·492	0·50	0·46	49360	" " Fat too high.
11·10	88·90	2·90	35·05	25·77	7·868	1·778	3 514	2·576	0·57	0·38	49361	Cubes. Ash and salt too high. Fat too high.

BULLETIN No. 267—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
						DISTRICT OF LONDON—		
1912.								
Feb. 19	Meat Extract.	47884	W. S. Cole, Exeter.	3 pkgs	75	Nat. Drug Co.		Na-Drug-Co. Brand.
" 19	"	47886	W. S. Howey, Exeter.	3 "	75	Leibigs Co., London, Eng.		
" 20	"	47892	W. S. R. Holmes, Clinton.	3 "	75	Bovril Ltd., London, Eng.		
" 20	"	47895	J. E. Hovey, Clinton.	3 "	75	Armour's Ltd., Toronto		Armour's.
" 20	"	48202	W. A. McConnell, Clinton.	3 "	75	Leibigs Co., London, Eng.		Oxo cubes
						DISTRICT OF WINDSOR—		
Feb. 9	Meat Extract.	47864	Anderson & Nelles, London.	3 pkgs	75	Leibig Oxo Co., London, Eng.		Oxo
" 6	"	48079	John Diprose, London.	3 jars.	60	Bovril Ltd., J. S. Johnstone.		
" 7	"	48087	Thos. Shaw, London, east.	3 pkgs	30	Oxo, London, Eng.		
" 8	"	48098	Taylor Drug Co., London.	3 "	75	Nat. Drug Co.		
" 9	"	48100	W. T. Strong, London.	3 jars.	75	Armour's Co., Ltd., Toronto.		
						DISTRICT OF MANITOBA—		
Feb. 20	Meat Extract.	48601	A. Macdonald & Co., Portage Ave., Winnipeg.	3 pkgs	105	Bovril Ltd, England.		
" 20	"	48602	" "	3 "	30			Oxo
" 21	"	48603	H. E. Weldon & Co., Portage Ave., Winnipeg.	3 "	105	Leibigs Ltd., London.		
" 21	"	48604	The Codville Co., Winnipeg.	3 "	82	Johnston's Fluid Beef.		
" 21	"	48605	" "	3 "	75	Armour & Co., Chicago.		Vigoral.
						DISTRICT OF CALGARY—		
Mar. 6	Meat Extract.	44136	Capital Mercantile Co., Edmonton.	3 bots	100	Leibigs Co., Ltd., London Eng.		
" 7	"	44137	Hudson Bay Co., Edmonton.	3 "	160	Bovril, Ltd., London, Eng		
" 7	"	44138	Acme Co., Edmonton	3 "	100	Leibigs Co., Ltd., London Eng.		
" 8	"	44139	Hallier & Aldridge, Edmonton.	3 tins.	150	Bovril Ltd., Montreal.		
" 8	"	44140	J. H. Morris & Co., Ltd, Edmonton.	3 pots	100	"		

SESSIONAL PAPER No. 14

MEAT EXTRACTS.

Results of Analysis.													
Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as							No. of Sample.	Remarks and Opinion of the Chief Analyst.
					Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate. (Meat bases)	Kreatinin.	Kreatin.			
JNO. TALBOT, ACTING INSPECTOR.													
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
24·15	75·85	0·75	21·90	13·70	6·092	0·441	3·661	2·590	0·17	0·05		47884	
31·10	65·90	1·15	19·39	9·33	5·852	0·840	2·534	2·478	0·54	0·26		47886	Fluid Meat Extract.
45·45	54·55	0·90	15·45	9·30	5·541	1·092	2·492	1·960	0·53	0·27		47892	" "
23·30	76·70	0·65	20·50	5·11	8·792	0·202	4·726	3·864	0·67	0·53		47895	
10·75	89·25	3·50	35·05	25·62	7·420	1·589	3·311	2·520	0·70	0·34		48202	Cubes. Ash and salt too high. Fat too high.
JNO. TALBOT, INSPECTOR.													
33·30	66·70	1·15	20·20	9·82	5·992	0·728	2·772	2·492	0·62	0·32		47864	Fluid Meat Extract.
45·25	54·75	0·75	14·18	9·00	5·460	1·029	2·457	1·974	0·61	0·14		48079	" "
10·45	89·55	3·45	35·05	24·43	7·616	1·610	3·346	2·660	0·67	0·38		48087	Cubes. Ash and salt too high. Fat too high.
24·05	75·95	1·20	22·01	13·88	6·521	0·326	3·622	2·576	0·20	0·00		48098	
23·90	76·10	1·00	19·30	5·23	8·764	0·256	4·886	3·612	0·62	0·61		48100	
A. C. LARIVIÈRE, INSPECTOR.													
40·25	59·75	0·75	14·36	8·71	5·124	1·008	2·156	1·960	0·57	0·49		48601	Fluid Meat Extract.
12·05	87·95	3·85	35·20	24·74	7·476	1·582	3·612	2·282	0·70	0·44		48602	Cubes. Ash and salt too high. Fat too high.
24·50	75·50	0·85	18·50	2·68	9·884	0·402	4·610	4·872	0·72	1·27		48603	
32·97	67·03	0·50	17·00	7·48	7·080	1·580	3·829	1·680	0·48	0·51		48604	Fluid Meat Extract.
50·70	49·30	0·35	14·60	8·20	4·032	0·350	1·288	2·394	0·60	0·20		48605	" "
R. W. FLETCHER, INSPECTOR.													
34·70	65·30	1·30	19·30	9·28	5·964	0·994	2·478	2·492	0·50	0·44		44136	Fluid Meat Extract. Fat too high.
44·75	55·25	1·00	14·99	8·39	5·628	1·036	2·632	1·960	0·62	0·27		44137	" "
34·75	65·25	1·10	19·90	9·78	6·160	0·812	3·066	2·282	0·76	0·18		44138	" "
33·02	66·98	0·65	17·05	8·27	7·610	1·180	4·819	1·631	0·57	0·28		44139	" "
32·40	67·60	0·65	17·00	7·48	7·420	1·510	4·286	1·624	0·62	0·30		44140	" "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
						DISTRICT OF NELSON—		
1912.								
Feb. 13	Meat Extract.	48488	Mallory Drug Co., Kamloops, B.C.	3 pots	150	Nat. Drug Co. Montreal.		
" 13	"	49605	Stevens & Allan, Kamloops, B.C.	3 cans	150	Bovril Ltd., Montreal.		
" 13	"	49615	Wilson Grocery Co., Kamloops, B.C.	3 jars.	120	Bovril Ltd., London.		
" 20	"	49627	J. J. Ling & Co., Ashcroft, B.C.	3 tins.	105	Armour Co., Chicago.		
" 26	"	49631	Canada Drug & Book Co., Nelson, B.C.	3 bots	105	"		
						DISTRICT OF VANCOUVER—		
Feb. 21	Meat Extract.	38310	Hudson's Bay Co., Vancouver.	3 jars.	180	Brand & Co., London. Eng		Consists of the juice of the finest beef.
" 21	"	38311	London Grocery Co., Ltd., Vancouver.	3 "	75	Bovril Ltd., London, Eng		A combination of the Extractives of the Albumen and fibrin of beef. Absolutely pure.
" 21	"	38312	Woodward Dept. Stores, Vancouver.	3 "	75	Am. Fluid Beef Co., Montreal		Contains the fibrine and Albumenoids of prime beef
" 21	"	38313	H. A. Edgett Co., Ltd., Vancouver.	3 "	75	Armour Ltd., Toronto.		Made only from the finest quality of fresh beef.
" 21	"	38314	David Spencer Ltd., Vancouver.	3 "	45	Northland Mfg., Co., Toronto.		Nutri-Ox Concentrated fluid beef.
						DISTRICT OF VICTORIA—		
Feb. 27	Meat Extract.	49110	Windsor Grocery Co., Victoria, B.C.	3 pkgs	150	Bovril Ltd., Montreal.		Johnston's Fluid Beef.
" 28	"	49111	The West End Grocery Co., Ltd., Victoria, B.C.	3 "	75	Armour Ltd., Toronto.		Armour's
" 29	"	49112	D. H. Ross & Co., Victoria, B.C.	3 "	75	Armour & Co., Chicago.		Vigoral
Mar. 1	"	49113	Capas & Young, Victoria, B.C.	3 "	60	Bovril Ltd., London, Eng		Bovril
" 1	"	49114	Wm. B. Hall, Victoria, B.C.	3 "	90	Leibigs Co., London, Eng		Oxo

SESSIONAL PAPER No. 14

MEAT EXTRACTS.

Results of Analysis.												Remarks and Opinion of the Chief Analyst.
Water.	Solids.	Petrolic Ether Extract.	Ash.	Sodium Chloride.	Nitrogen as				Creatinin.	Kreatin.	No. of Sample.	
					Total.	Insoluble.	Ppt. by Tannin Salt.	Tannin Salt Filtrate. (Meat bases)				
THOS. PARKER, INSPECTOR.												
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
25·90	74·10	0·40	22 75	14·09	7·224	0 658	4 466	2·100	0·13	0·15	48488	
33·00	67·00	0·75	17·45	8·99	7·280	1·393	4·267	1·620	0·76	0·04	49605	Fluid Meat Extract.
44·70	55·30	0·85	15·30	8 90	5·628	1·090	2·498	2·040	0·76	0·28	49615	" "
22·25	77·75	0·90	20·55	5·58	8·484	0 364	4·480	3·640	0·65	0·55	49627	
52·20	47·80	0 30	15·40	8·33	3·752	0 175	1·673	1·901	0·36	0·16	49631	Fluid Meat Extract. Solids slightly low.
J. F. POWER, INSPECTOR.												
90·30	9·70	0·90	1·40	0·98	1·652	0·044	0 343	1·265	tr'ce	tr'ce	38310	Meat juice.
43·15	56·85	0 60	14·40	8·34	5·152	1·001	1 897	2·254	0·60	0·23	38311	Fluid Meat Extract.
45·25	54·75	1 35	14·62	8·39	5·684	1·361	3·021	1·302	0 53	0·10	38312	Fluid Meat Extract. Fat too high.
23·50	76·50	1 05	20·30	5·32	8·260	0·399	4·194	3·667	0·63	0 60	38313	
45·35	55·65	2·35	16·30	9·69	4·340	0·546	1·302	2·492	0·50	0·22	38314	Fluid Meat Extract. Fat too high.
D. O'SULLIVAN, INSPECTOR.												
33·12	66·88	0 60	17·12	8·10	7·220	1·130	4·620	1·470	0·59	0·53	49110	Fluid Meat Extract.
21·35	78·65	0·75	19·80	5·19	8·204	0·315	4·501	3·388	0·60	0·74	49111	
50·80	49·20	0·25	15·23	8·60	3·808	0·448	1·330	2·030	0·58	0·21	49112	Fluid Meat Extract.
43·00	57·00	0·80	15·67	9·15	5·656	1·085	2·550	2·021	0 64	0·24	49113	" "
34·10	65·90	1·00	19·69	9·45	5·740	0·840	2·548	2 352	0·62	0·30	48114	" "

APPENDIX K.

BULLETIN No. 268—HEADACHE POWDERS,

OTTAWA, September 17, 1913.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I have the honour to present you a report upon 171 samples of Headache Powders purchased by our Inspectors during February and March of this year.

Our last inspection of Headache Powders was made in April, 1911, and is reported in Bulletin No. 230. It is satisfactory to find that the present inspection shows a very great improvement in the character of those much used drugs, as well as in the conditions of their sale.

There can be no doubt that harm is done by the indiscriminate use of Headache Powders. In the natural desire to put a stop to pain, too little consideration is given to the fact that headache is merely a symptom of something wrong, and not itself a disease. Over-fatigue, irregularities in digestion or excretion, nervousness, and many other causes give rise to headache as a prominent symptom, and the employment of a sedative drug to allay the pain, instead of seeking the fundamental cause of the disturbance, and treating that, may be very harmful, as it is evidently an unreasoning, policy. The drugs to which the efficiency of most of these Headache Powders is due, are powerful heart depressants, and are capable, under certain conditions, of producing fatal results, while, under most conditions, they must do harm.

Acetanilide (antifebrin) and Phenacetin are most frequently found in these Headache Powders. The Proprietary or Patent Medicine Act (Sec. 7 (c)—) requires that when Acetanilide is present in quantity above two grains per maximum dose or Phanacetin above five grains, the name of the drug and the fact of its presence shall be declared on the label. Each of these drugs has other names, but the names given above are the common ones, and the only ones which may be used in announcing the drugs on the label.

The essential composition of these powders is as below:—

	Samples.
Containing acetanilide	130
" phenacetin	23
" acetanilide and phenacetin	9
" antipyrin " "	1
" none of the above drugs	8
Total	171

It is permitted to add more than two grains of Acetanilide (or five grains of Phenacetin) if the fact of the presence of the drug is declared on the label. The following is a statement of the amount of Acetanilide found in those powders which contain it either alone or in combination with Phenacetin:—

	Samples.
Less than 2 grains	19
From 2 to 3 "	17
" 3 to 4 "	40
" 4 to 5 "	19
" 5 to 6 "	7
Above 6 grains	7
Total	139

It would seem that manufacturers and the public find that sufficiently marked results are not obtained with two-grain doses, they prefer, therefore, to declare the presence of the drug, and to employ larger amounts. About 80 per cent of the Acetanilide powders contain less than 4 grains, and very few above six grains. The limit of dosage prescribed by the British Pharmacopœia are from one to three grains. It is evident that most of the Headache Powders offered for sale exceed the maximum amount named in the pharmacopœia; and, no doubt, serious results would more frequently follow their use were it not that they contain other drugs (usually Caffeine) which act as stimulants to the heart. A little reflection should convince the consumer of these powders that he is taking great liberties with his health and life.

Nearly all of the samples examined contain a declaration of the presence of Acetanilide or Phenacetin, and in this way meet the requirements of the Proprietary or Patent Medicine Act. Sometimes the declaration is made upon the wrapper of each individual powder, more frequently it is made upon the label of a box containing one dozen powders. The Department requires that it should be printed upon each individual powder covering, since it frequently happens that the user buys less than a package; and he may thus be unaware of the presence of Acetanilide.

A highly objectionable statement to the effect that the powder is a CURE is found on many labels. Headache is not a disease; and consequently no cure is needed. Headache is merely a warning of something being wrong; and a cure for that fundamental something is what is needed. These drugs are not a cure for indigestion, or fatigue, or whatever else this something may be; and it is utterly false to describe Headache Powders as a Cure.

If we except the fact that four of the samples reported declare Acetanilide under the name of Phenylacetamide and that seven samples declare Phenacetin as Acetphenetidin, all but eight must be held to meet the requirements of the Proprietary or Patent Medicine Act. Of this number, five are asserted to be manufactured by J. C. Mathieu, of Marlboro, Mass., viz.:—

	Acetanilide found.		Mean.
46420	4·9	5·0	4·95
1545	3·1	3·1	3·10
51213	3·5	4·2	3·85
51335	2·7	2·7	2·70
51743	3·7	3·3	3·50
Average			3·62 grains.

The others are:—

50596	3·3	3·8	3·55
47968	3·3	3·8	3·55
49823	3·2	3·2	3·20

These eight samples contain decided excess of Acetanilide, above the two grains allowed by the Act, where the label does not contain a statement that the drug is present. Although the content of Acetanilide is actually less than in many cases where the announcement of its being present makes the sale of the sample legal, there is technical violation of the Act in the instances referred to.

I beg to recommend the publication of this report as Bulletin No. 268.

I have the honour to be, Sir,

Your Obedient Servant,

A. McGILL,
Chief Analyst

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF NOVA SCOTIA—					
1913.								
Mar. 6	Headache Wafers.	46956	National Drug Co., Halifax, N.S.	1 doz.	25	Nat. Drug Co., Toronto.		Wafers were loose wrapped in paper.
" 7	"	46957	Kinley's Ltd., Halifax, N.S.	1 "	25	Zymole Co., Windsor, Ont.	Mfrs.	
" 7	Headache Powders.	46958	Brown Bros. & Co., Halifax, N.S.	1 "	25	Nyals Co., Windsor, Ont.	"	"Nyal's." Each powder contains 3 grains acetanilide, 1 grain caffein. Relieves headaches from all causes.
" 10	"	46959	C. A. Barnstead, Halifax, N.S.	1 "	30	F. J. Wheaton, Amherst, N.S.	Mfr	"Kumfort" acetanilide acknowledged. Reg. No. 123 P. or P. Act.
" 16	"	46960	Buckley Drug Co., Halifax, N.S.	1 "	25	Vendors		"Buckley's. Acetanilide acknowledged. Reg. No. 353. P. or P. Act.
" 10	"	46961	J. McD. Taylor, Halifax, N.S.	1 "	25	Toronto Phar. Co., Toronto, Ont.	Mfrs	"Perfect." Acetanilide acknowledged. Are an instantaneous cure for headaches, neuralgia. Reg. No. 95. P. or P. Act.
" 10	Headache Wafers.	46962	R. S. McDonald, Halifax, N.S.	1 "	25	N. D. & C. Co., Halifax, N.S.	"	Wafers were loose wrapped in paper.
" 11	Headache Powders.	46963	H. A. Watson, Halifax, N.S.	1 "	25	Vendor		"Perfect." An instantaneous cure for headaches or neuralgia. Caffeine, acetanilide 2 grs. in each Powder.
" 19	"	46964	G. C. McDougall, Kentville, N.S.	1 "	30	United Drug Co., Toronto.	Mfrs	"Rexall." An immediate relief in neuralgia. Contains 5 grains acetphenetidin. Reg. No. 1803. P. or P. Act.
" 24	"	46965	Crowe Bros., Truro, N.S.	1 "	15	"		Powders were loose wrapped in paper.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grains.	Results of Analysis. Acetanilide — Antifebrin.	Phenacetin.	Antipyrine — Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			grs.	grs.	grs.		
....	No. 1.	4·8	None.	None.	None.	46956	Meets requirements of P. or P. Act.
	No. 2.	4·5	"	"	"		
.. . .	No. 1.	8·5	4·0	.....	.....	46957	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8·6	4·1	.....	.....		
One powder, repeated in an hour if necessary. Not more than two powders should be taken in succession.	No. 1.	4·9	3·2	.....	.....	46958	" "
	No. 2.	5·0	3·3	.....	.....		
Children under 10 years $\frac{1}{3}$ of a powder; 10 to 15 years $\frac{1}{2}$ a powder. Adults: One powder repeated in $\frac{1}{2}$ an hour if needed.	No. 1.	7·5	3·1	.....	.....	46959	" "
	No. 2.	6·3	2·5	.....	.....		
One powder. Repeat in $\frac{1}{2}$ an hour if pain is not all gone. Then one every 4 hours.	No. 1.	4·5	3·3	.....	.....	46960	" "
	No. 2.	4·5	3·1	.....	.....		
One powder. Repeat in $\frac{1}{2}$ an hour if not relieved.	No. 1.	10·8	2·1	.....	.....	46961	" "
	No. 2.	10·8	2·1	.....	.....		
. .. .	No. 1.	4·7	None.	None.	None.	46962	Meets requirements of P. or P. Act.
	No. 2.	9·0	"	"	"		
One powder. Repeat in $\frac{1}{2}$ an hour if not relieved.	No. 1.	7·8	1·6	.....	.....	46963	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	11·0	2·3	.....	.....		
One powder. For severe headache repeat the dose once in 20 minutes.	No. 1.	7·3	... .	5·0	. .	46964	Phenacetin declared as acetphenetidin. Meets requirements of P. or P. Act.
	No. 2.	7·7	.....	5·0	....		
....	No. 1.	6·5	.....	4·2	....	46965	Meets requirements of P. or P. Act.
	No. 2.	7·4	.....	4·5	.....		

R. J. WAUGH, INSPECTOR.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Description as found on Label.
						DISTRICT OF PRINCE EDWARD ISLAND—		
1913.								
Feb. 26	Headache Powders.	46414	J. G. Jameson, Charlottetown, P.E.I.	1 box	25	The T. Milburn Co., Ltd., Toronto.		This sample is described like No. 50592.
Mar. 3	Headache Wafers.	46415	Reddin Bros., Charlottetown, P.E.I.	1 "	25	The Zymole Co., New York.		Wafers were loose wrapped in paper.
" 11	Headache Powders.	46416	C. P. Rankin, Charlottetown, P.E.I.	1 "	25	H. K. Wampole, Perth, Ont.		Powders were loose wrapped in paper.
" 14	"	46417	E. A. Foster, Charlottetown, P.E.I.	3 pkgs	30	F. J. Wheaton Co., Ltd., Amherst, N.S.		This sample is described like No. 50591.
" 14	Headache Wafers.	46418	" "	1 box.	25	F. Stearns, Windsor, Ont.		Wafers were loose wrapped in paper, each wafer stamped with the word Shac.
Apr. 25	Headache Powders.	46419	Keir & McFadyen, Kensington, P.E.I.	1 doz.	30	H. K. Wampole & Co., Perth, Ont.		"Keir's." For headache, neuralgia and feverish conditions. Acetanilide acknowledged.
" 25	"	46420	Dr. F. W. Jardine,	1 "	25	J. L. Mathieu, Marlboro, Mass.		This sample is described like No. 1545.
" 25	"	46421	" "	1 "	30	F.G. Wheaton Co., Ltd., Folly Village, N.S.		This sample is described like No. 50591
" 25	"	46422	Gourlies Ltd., S. Side, P.E.I.	1 "	25	United Drug Co., Ltd., Toronto.		This sample is described like No. 46964.
" 25	"	46423	McLellan & Co., S. Side, P.E.I.	1 "	25	The T. Milburn Co., Ltd., Toronto.		"Dr. Lows".....
						DISTRICT OF NEW BRUNSWICK—		
Feb. 27	Headache Powders.	50590	William Hawker & Son, St. John, N.B.	3 pkgs	30	Toronto Phar. Co., Ltd., Toronto.		This sample is described like No. 46961.
" 28	"	50591	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	1 "	100	F.G. Wheaton Co., Ltd., Amherst, N.S.		"Kumfort." Gives prompt relief in headache, neuralgia or pain attending Lagrippe. Acetanilide acknowledged. Reg. No. 123 P. or P. Act.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grains.	Results of Analysis. Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
WM. A. WEEKS, INSPECTOR.							
			grs.	grs.	grs.		
	No. 1.	13·7	6·4	....	.....	46414	Acetanilide declared. Meets
	No. 2.	14·2	5·7				requirements of P. or P. Act.
	No. 1.	7·5	3·5	....	.....	46415	" "
	No. 2.	7·4	3·5				
	No. 1.	10·4	3·9	....	.....	46416	" "
	No. 2.	11·9	4·5				
	No. 1.	2·4	1·2	....	.....	46417	" "
	No. 2.	7·5	3·0				
	No. 1.	7·2	3·5	....	.....	46418	" "
	No. 2.	8·6	4·0				
One powder, repeated in ½ an hour if necessary, at least 3 hours should elapse before another dose is taken. A seidlitz powder or other mild laxative should be taken with the first dose. For sleeplessness one powder on retiring.	No. 1.	11·4	4·2	....	.....	46419	" "
	No. 2.	12·3	4·7				
	No. 1.	7·2	4·9	....	.....	46420	Excess acetanilide not declared
	No. 2.	8·1	5·0				Sold illegally.
	No. 1.	1·8	0·8	....	.....	46421	Acetanilide declared. Meets
	No. 2.	8·3	3·3				requirements of P. or P. Act.
	No. 1.	5·6	....	3·7	.....	46422	Phenacetin declared as acet-
	No. 2.	3·9	....	2·7			phenetidin. Meets requirements of P. or P. Act.
One powder for adults. Children under 10 years ⅓ of a powder; 10 to 15 years ½ a powder. If necessary repeat in 30 minutes.	No. 1.	14·7	6·4	....	.....	46423	Acetanilide declared. Meets
	No. 2.	14·4	5·5				requirements of P. or P. Act.
J. C. FERGUSON, INSPECTOR.							
	No. 1.	7·9	1·5	....	.....	50590	Acetanilide declared. Meets
	No. 2.	7·8	1·5				requirements of P. or P. Act.
Children under 10 years ⅓ of a powder; 10 to 15 years ½ a powder. Adults 1 powder. Repeat in ½ an hour if needed.	No. 1.	5·7	2·3	....	.....	50591	"
	No. 2.	7·4	3·0				

DISTRICT OF NEW BRUNSWICK—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Description as found on Label.
1913.								
Mar. 6	Headache powders.	50592	The Canadian Drug Co., Ltd., St. John, N.B.	3 pkgs	30	The T. Milburn Co., Ltd., Toronto.		"Milburn's" "Sterling." Cures headaches, cold in the head and neuralgia; absolutely harmless. Acetanilide acknowledged. Each powder. 5 866 grains. Reg. No. 71 P. or P. Act
" 10	"	50593	Frank E. Porter, St. John, N.B.	3 "	25	Vendor		"Peerless." For headaches, neuralgia and feverish conditions. Acetanilide acknowledged. 4½ grs. each powder.
" 12	"	50594	E. Clinton Brown, St. John, N.B.	3 " "	25			"Brown's." Acetanilide acknowledged.
Apr. 10	"	50595	Johnston & Johnston, St. Stephen, N.B.	3 "	30	United Drug Co., Ltd., Toronto.		This sample is described like No. 46964.
" 15	"	50596	John M. Wiley, Fredericton, N.B.	1 doz.	30	Vendor		"Wiley's."
" 16	"	50597	The Baird Co., Ltd., Woodstock, N.B.	1 "	35	Vendors		"Bowman's." For headaches, nervousness, sleeplessness, feverish conditions, colds, &c. Acetanilide acknowledged. 3 grains in each powder.
" 18	Headache Wafers.	50598	Wade Drug Co., Perth, N.B.	1 pkge	25	F. Stearns & Co., Windsor, Ont.		"Shac." "Stearns'" Headache Cure. A speedy relief for headaches of all origin; a relief in neuralgia. Is a general pain cure. Acetanilide acknowledged. 3 grs. in each wafer.
23	Headache Powders.	50599	B. J. Sharp, Sussex, N.B.	1 doz.	30	Gibson, Howell Co., Phila., Pa.		"Gibson's." This sample is described like No. 50593,

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Results of Analysis.				
J. C. FERGUSON, INSPECTOR.							
			grs.	grs.	grs.		
Children from 5 to 10 years ¼ to ⅓ of a powder; 10 to 15 years ½ to ⅔ of a powder. Adults 1 powder. Repeat the dose in 30 minutes.	No. 1.	17·2	7·4	....	....	50592	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	16·3	7·2				
One powder for headaches repeated in 30 minutes if necessary. 3 hours should elapse before another dose is taken. A seidlitz powder or other mild laxative should be taken with the first dose. Care should be taken in administering to children. For sleeplessness one powder on retiring.	No. 1.	11·4	4·4	.....	.....	50593	" "
	No. 2.	11·6	4·5				
One powder. If not relieved in ½ an hour another powder may be taken.	No. 1.	5·1	3·7	.....	.....	50594	" "
	No. 2.	6·9	4·9				
.....	No. 1.	9·4	.....	6·0	.....	50595	Phenacetin declared as acetphenetidin, and present in slight excess. Otherwise meets requirements of act.
	No. 2.	8·9	.....	5·9			
One powder. If not relieved in ½ an hour another powder may be taken.	No. 1.	5·3	3·3	.....	.....	50596	
	No. 2.	6·8	3·8				
One powder, repeated in 20 minutes if not relieved	No. 1.	9·7	3·1	.....	.....	50597	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9·8	3·2				
One wafer for adults repeated in an hour if not relieved. Not more than 2 wafers should be taken in succession.	No. 1.	6·2	2·9	.....	.....	50598	" "
	No. 2.	3·9	1·9				
.....	No. 1.	11·3	4·3	.....	.....	50599	" "
	No. 2.	11·2	4·2				

5 GEORGE V., A. 1915

BULLETIN No. 268—

DISTRICT OF QUEBEC—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on the Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
1913.								
Feb. 24	Headache Wafers.	37173	Benjamin Crepeault, 68 Rue Cremasie, Montcalmville.	1 doz.	15	Red Cross Pharmaceutical Co., Quebec.	N. Turcot & Cie, Quebec.	"Red Cross." A relief for headaches and neuralgia. 3 grs. of phenylacetamide in each wafer.
" 25	"	37174	T. Racine, 66 Rue Cremasie, Montcalmville.	1 "	18	"	"	"RedCross." Wafers were loose wrapped in paper.
" 25	"	37175	Dr. A. Fournier, 65 Rue Cremasie, Montcalmville.	1 "	15	Dunlop Phar. Co., Montreal.	Nat. Drug Co., Montreal.	"Dunlop's" acetanilide acknowledged.
" 25	"	37176	" "	1 "	20	The Hervay Chem. Co., St. Basile, Canada.	W. Brunet & Cie, Quebec.	"Hervay's." A sure remedy for headaches of all kinds. 4 grains acetanilide in each wafer. Reg. No. 238. P. or P. Act.
" 26	"	37177	Jos. Brulot, 11 Chemin St. Foie.	1 "	20	Pharmaceutical Co., Quebec.	Mfrs.....	"RedCross." Wafers were loose wrapped in paper.
" 27	"	37178	Jos. Bedard, 113 2em Rue Stadacona, Quebec.	1 "	20	The Ed. MorinLtd., Quebec.	Unknown...	"Morin's." Reg.No. 88. P. or P. Act. 3 grains antifebrin.
27	"	37179	Francois Cleche, 4em Rue III Stadacona, Quebec.	1 "	15	"	Mfrs.....	This sample is described like No. 37178.
Mar. 3	"	37180	Jos. F. Goslin, 50 Rue d'Orchester, Quebec.	1 "	15	Red Cross Phar. Co., Quebec.	"	This sample is described like No. 37173.
" 3	"	37181	" "	1 "	15	Dr. Ed. Morin Co., Quebec.	"	This sample is described like No. 37178.
" 3	"	37182	Charle Martel, 49 Rue Artillerie Que.	1 "	15	Red Cross Pharmaceutical Co., Quebec.	Unknown...	This sample is described like No. 37173.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Results of Analysis.				
F. X. W. E. BELAND, INSPECTOR.							
			grs.	grs.	grs.		
One wafer for adult dose. Repeat in one hour if not relieved. More than 2 doses should not be taken in succession.	No. 1.	6·4	2·0	.....	.....	37173	Acetanilide is declared as phenylacetamide. Otherwise meets requirements of P. or P. Act.
	No. 2.	8·8	2·8	.....	....		
.....	No. 1.	7·4	2·4	...	....	37174	Meets requirements of P. or P. Act.
	No. 2.	8·5	2·7	.....	.....		
One wafer. Repeated in one hour, but not more than 2 wafers should be taken in succession.	No. 1.	9·4	3·4	.....	.....	37175	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9·4	3·5	...	...		
One wafer. Repeated in an hour if cure is not obtained. Not more than 2 wafers in succession. Depression, if any, may be dispelled by taking a dessertspoonful of wine.	No. 1.	14·3	4·0	.....	.....	37176	" "
	No. 2.	14·1	3·9	...	.....		
.....	No. 1.	9·8	3·0	.....	.....	37177	Meets requirements of P. or P. Act.
	No. 2.	8·1	2·4	.....	.....		
One wafer. Repeated in an hour if a cure is not obtained, but not more than 2 wafers to be taken in succession. Depression may be dispelled by taking a dessertspoonful of wine.	No. 1.	11·1	2·8	...	....	37178	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9·3	2·5	....	.....		
.....	No. 1.	10·9	2·8	.....	...	37179	" "
	No. 2.	9·1	2·8	.....	.....		
.....	No. 1.	8·0	2·6	.....	.....	37180	Acetanilide is declared as phenylacetamide. Otherwise meets requirements of P. or P. Act.
	No. 2.	9·2	2·9	.....	.....		
.....	No. 1.	9·9	3·6	.....	.....	37181	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8·8	3·1	.....	.....		
.....	No. 1.	8·9	2·9	.....	.....	37182	Acetanilide is declared as phenylacetamide. Otherwise meets requirements of P. or P. Act.
	No. 2.	8·8	3·0	...	...		

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on the Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF THREE RIVERS—
1913.								
Mar. 7	Headache Wafers.	57211	Esdras Asselin, St. Felix de Valois.	2½ bxs.	50	Williams Chem Co., New York.		Wafers were loose wrapped in paper. Each wafer was stamped with mfrs. name and address.
" 7	"	57213	T. F. Gaudet, Joliette.	1 box	20	Joliette Chem. Co., Joliette.		Wafers were loose wrapped in paper.
" 17	"	57226	Jos. Mosseau, St. Felix de Valois.	1 "	25	J. A. E. Gauvin, Montreal.		
" 18	"	57230	Ernest Asselin, St. Felix de Valois.	1 "	20	Granger Freres.		Wafers were loose in a box.
" 22	"	57246	T. F. Gaudet, Joliette.	2 "	50	Joliette Chem. Co., Joliette.		"Dr. Neys." Acetanilide acknowledged.
" 24	Headache Tablets.	57249	Wilfrid Bissette, St. Felix de Valois.	2 "	25	Dr. Richards, London, Eng.		Dr. Richards' Eureka Tablets for sick headache.
" 24	Headache Wafers.	57250	Esdras Asselin, St. Felix de Valois.	2 "	25	The Joliette Chem. Co., Joliette, P.Q.		This sample is described like No. 57246.
								DISTRICT OF EASTERN TOWNSHIPS—
Mar. 10	Headache Wafers.	1544	Dr. J. B. Drouin, Victoriaville.	1 box.	25	Chas. E. Frosst & Co., Montreal.		Wafers were loose wrapped in paper.
" 12	Headache Powders.	1545	P. C. Fortin, Beauceville.	1 "	15			Mathieu's Nervine Powders. Instant headache cure and neuralgia, etc.
" 13	Headache Tablets.	1546	D. M. Déchene, St. Marie Beauce.	1 "	20	B. N. Robinson Co., Coaticooke.		"Zutoo" Tablets. "Japanese Headache Cure." Cure all kinds of headaches, break up a cold, assuage the sharp pains of rheumatism and the monthly pains of woman. They cure car sickness, sour stomach, and relieve indigestion. Reg. No. 1134. P. or P. Act.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grams.	Results of Analysis. Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
DR. V. P. LAVALLEE, INSPECTOR.			grs.	grs.	grs.		
.....	No. 1.	13·1	3·2	.....	.....	57211	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	14·7	3·1	. .	. .		
.....	No. 1.	7·0	2·3	... ..	.....	57213	Meets requirements of P. or P. Act.
	No. 2.	9·3	3·1	... ..	.....		
.....	No. 1.	13·7	4·3	...	.....	57226	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	15·9	4·6	.....	....		
.....	No. 1.	5·0	2·9	.....	.....	57230	" "
	No. 2.	5·1	2·8	.....	.. ...		
One wafer, repeated in an hour if not relieved. Not more than 2 wafers should be taken in succession.	No. 1.	7·5	2·8	.....	.....	57246	" "
	No. 2.	8·9	3·4	.. .	. . .		
One tablet, repeated in an hour if relief is not obtained. Not more than 2 tablets should be taken in succession.	No. 1.	4·0	None.	None.	None.	57249	Meets requirements of P. or P. Act.
	No. 2.	5·1	"	"	"		
.....	No. 1.	10·1	3·8	....	.....	57250	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8·8	3·5	.....	.....		
J. C. ROULEAU, INSPECTOR.							
.....	No. 1.	9·4	3·4	....	.....	1544	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	7·4	3·5	... ..	.....		
One powder every 3 hours. However, the dose can be repeated once after one hour if not relieved. Children 1 to 2 years, divide powder in 12 parts; 3 to 4 years in 8 parts; 5 to 10 years in 4 parts; 10 to 15 years in 2 parts.	No. 1.	4·6	3·1	.....	.....	1545	Excess acetanilide; not declared. Sold illegally.
	No. 2.	4·7	3·1	.....	.....		
One tablet. Repeat in ½ an hour if not cured by one tablet.	No. 1	5·9	0·9	2.3	.....	*1546	Meets requirements of P. or P Act.
	No. 2.	5·7	0·9	2·0	. ...		

* Approximately.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vender.		Description as found on the Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF EASTERN								
1913								
Mar. 13	Headache Wafers.	1547	Solomon G. Hadaya, Scotts.	1 box.	15	Red Cross Phar. Co., Quebec.		This sample is described like No. 37173.
" 19	Headache Powders.	1548	F. T. Hewit, Sherbrooke.	1 "	25	Nyal, New York		This sample is described like No. 46958.
" 19	"	1549	Pharmacie Beique, Magog.	1 doz.	25	Vendor.		Powders were loose wrapped in paper.
April 17	Headache Wafers.	1550	A. J. Boisvert, Plessisville.	1 box.	25	J. A. Gauvin, Montreal.		"Gauvins" recommended by the medical profession for the cure of headache, neuralgia, grippe, cold in the head and nervousness. Stamp on package.
" 17	"	1551	E. Anthier & Cie, Roxton Falls.	1 "	20	"		This sample is described like No. 1550, Reg. No. 704, P. or P. Act.
" 23	Headache Powders.	1552	W. D. Bradford, Granby.	1 "	25	J. W. Lambley, Montreal.		"Lamblys" Headache Cure, warranted to cure headache, toothache, neuralgia, earache, pain in the back, bowels or stomach, stimulates the heart instead of depressing it. Can be taken with perfect safety. Contains acetanilide. No. 528. P. or P. Act.
" 23	"	1553	Dr. McGowan, Knowlton.	1 "	25	The Toronto Phar. Co., Toronto.		This sample is described like No. 46961. Stamp on package.
DISTRICT OF MONTREAL—								
Feb. 24	Headache Powders.	51211	C. A. Champagne, 717 Ontario St., Maisonneuve, P.Q.	1 box.	25	The Toronto Phar. Co., Toronto.		This sample is described like No. 46961.
" 24	"	51212	"	1 "	25	New York and London Drug Co.		This sample is described like No. 46958.
" 24	"	51213	Dr. D. Chouinard, Adams St., Maisonneuve, P.Q.	1 "	20			This sample is described like No. No. 1545.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grains.	Results of Analysis. Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
TOWNSHIPS—*Concluded.*							
			grs.	grs.	grs.		
....	No. 1.	11·0	3·3	.....	. .	1547	Actanilide is declared as phenylacentamide; Otherwise meet requirements of P. or P. Act.
	No. 2.	11·7	3·6				
....	No. 1.	3·8	2·4	. .	..	1548	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	4·3	2·8				
. . . .	No. 1.	3·1	0·8	0·6	.....	*1549	Meets requirements of P. or P. Act.
	No. 2.	3·3	0·7	0 8	.....		
One wafer, repeat dose in 20 minutes if not relieved. In severe cases such as la grippe, take 1 wafer every 3 hours.	No. 1.	14·0	4·0	....	.....	1550	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	14 3	4·2	.....	.....		
.. ..	No. 1.	15·1	2·3	.....	...	1551	" "
	No. 2.	14·6	2·1	...	.....		
One powder every hour. Children ¼ to ½ of above quantity.	No. 1.	9·9	7·7	.....	.....	1552	" "
	No. 2.	10·1	7·9	.....	.....		
....	No. 1	13·3	8·8	.....	. .	1553	" "
	No. 2.	13·6	9·2	...	...		
J. J. COSTIGAN, INSPECTOR.							
.....	No. 1.	11 3	2·3	.....	.....	51211	Acetenilide declared. Meets requirements of P. or P. Act.
	No. 2.	11·8	2·4	.....	. ...		
....	No. 1.	2 8	1·5	.....	..	51212	" "
	No. 2.	3·5	1·7	....	...		
....	No. 1.	5·8	3·5	.....	.....	51213	Excess acetanilide not declared Sold illegally
	No. 2.	6·3	4·2	.....	.....		

*Approximately.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF MONTREAL—
1913.								
Mar. 27	Headache Powders.	51214	A. Lebeau, 465 St. James St., Montreal.	1 box.	25	Vendor.....	.....	"Lebeaus." For sick or nervous headache, neuralgia, rheumatic and menstrual pains, 4½ grs. acetanilide in each powder.
Feb. 27.	"	51215	" "	1 "	50	Orangeine Chemical Wks., Winsor, Ont.	.....	"Orangeine." A safe and sure pain allayer. Bracer Cure. Promptly relieves. Soothes, Strengthens, Rebuilds and Permanently benefits. Acetanilide 2¾ grs. Reg. No. 37 P. or P. Act.
" 27	"	51216	A. M. Brunette, 1048 St. James St., Montreal.	1 "	50	Vendor.....	.....	"Brunette's." Acetanilide 1 oz. in 100 powders.
Mar. 3	"	51217	A. D. Mann, 190 Villeneuve St., W., Montreal.	1 "	25	Hoffman Drug Co., Internat. Bridge, Ont	.....	"Hoffman's Harmless." A cure for all headaches. Acetinlide declared. Reg. No. 947 P. or P Act.
" 3	"	51218	" "	1 "	25	J. W. Lambly, Montreal.	.....	This sample is described like No. 1552.
" 4	Headache Wafers.	51219	O. T. Pinck, 348 Notre Dame St. W., Montreal.	1 "	25	Dr. Fred J. Demers, Montreal.	.....	Cachets du Dr. Fred Demers. A sure cure for headache, nervous or bilious. Acetanilide and Phenacetin acknowledged. Reg. No. 11 P. or P. Act.
" 4	"	51220	J. Pigeon, 412 Notre Dame St., W., Montreal.	1 "	25	The Zymole Co., Ltd., New York.	.....	This sample is described like No. 50598.
								DISTRICT OF VALLEYFIELD—
Mar. 19	Headache Wafers.	51326	D. J. McIntosh, Vankleek Hill.	1 doz.	25	Toronto Phar. Co., Toronto.	.....	Headache Powders for the immediate relief of headache and neuralgia. Prepared by McIntosh's Drug Store, Vankleek Hill. Prepared by Toronto Phar. Co., Toronto. Reg. No. 95 P. or P Act.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Results of Analysis.				
J. J. COSTIGAN, INSPECTOR.							
			grs.	grs.	grs.		
One powder, repeated in 20 to 30 minutes if necessary. For headache, one powder every 2 or 3 hours as required, for neuralgia, rheumatic pains, &c. For sleeplessness, one powder retiring, repeated in an hour if sleep is not produced. For children reduce dose according to age.	No. 1.	9·5	3·6	.....	.....	51214	Acetanilide declared. Meets
	No. 2	11·8	4·0	.....	.....		requirements of P. of R. Act.
One powder. Repeated in ¼ or ½ an hour if necessary, after which a powder every 4 or 5 hours will suffice.	No. 1.	4·6	2·4	.....	.....	51215	Acetanilide declared. Meets
	No. 2.	5·4	2·8	.....	.....	.....	requirements of P. or P. Act.
One powder. Repeated in an hour if not relieved.	No. 1.	17·6	3·9	....	....	51216	Acetanilide declared. Meets
	No. 2.	16·1	3·6	.....	....	.....	requirements of P. or P. Act.
One powder. Repeated in half an hour if not relieved.	No. 1.	12·1	5·4	.....	.....	51217	Acetanilide declared. Meets
	No. 2.	11·2	5·0	.....	.....	.....	requirements of P. or P. Act.
....	No. 1.	9·7	7·8	....	.....	51218	Acetanilide declared. Meets
	No. 2.	9·7	7·7	.....	.....	.....	requirements of P. or P. Act.
One wafer. Repeated in half an hour if not relieved. Not more than 2 wafers should be taken in succession.	No. 1.	6·2	1·8	3·2	.....	*51219	Acetanilide declared. Meets
	No. 2.	7·1	1·9	3·3			requirements of P. or P. Act.
....	No. 1.	8·9	4·2	..	.....	51220	Acetanilide declared. Meets
	No. 2.	7.5	3·5	....	....	.....	requirements of P. or P. Act.
J. J. COSTIGAN, ACTING INSPECTOR.							
One powder. Repeat in half an hour if necessary.	No. 1.	9·9	2·0	.....	.....	51326	Meets requirements of P. or P
	No. 2.	10·6	2·1	.....	.....	..	Act.

* Approximately.

Date of Collection	Nature of Sample.	No. of Samples.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF VALLEYFIELD—
1913.								
Mar. 20	Headache Wafers.	51327	P. T. McLaurin, Vankleek Hill.	1 box.	25	Lymans, Ltd., Montreal.	.....	"Lymans'." A positive cure for sick and bilious headache and neuralgia. Reg. No. 213 P. or P. Act.
" 11	Headache Powders.	51328	H. Elvidge, Vankleek Hill.	1 "	25	United Drug Co., Toronto.	.....	This sample is described like No. 46964.
" 20	Headache Wafers.	51329	W. A. McRea, Hawkesbury.	1 "	25	Toronto Phar. Co., Toronto.	.....	"Perfect." Reg. No. 95 P. or P. Act.
" 19	Headache Powders.	51330	G. E. McGibbon, Hawkesbury.	1 box.	25	New York & London Drug Co.	.....	This sample is described like No. 46958.
" 20	Headache Wafers.	51331	" "	1 "	25	.....	.....	This sample is described like No. 50598.
" 24	Headache Powders.	51332	John McLeister, Alexandria.	1 doz.	30	.....	.....	This sample is described like No. 46958.
" 24	Headache Wafers.	51333	" "	1 box.	25	.....	.....	"Nyal's" Headache Cure. Also of great value in neuralgia, lagrippe, rheumatism and all allied pain. Acetanilide 3 grains in each wafer. New York and London Drug Co., N.Y.
" 24	Headache Powders.	51334	Brock, Ostrom & Son, Alexandria.	1 "	25	T. Milburn Co., Ltd., Toronto.	.....	This sample is described like No. 50592.
" 24	"	51335	" "	1 "	25	.....	.....	This sample is described like No. 1545.
								DISTRICT OF OTTAWA—
Feb. 28	Headache Powders.	51740	Hull Medical Hall, Hull, P.Q.	1 box.	25	Vendor....	.....	"Antalgine," Anti-Pain, reduces temperature, relieves pain with celerity and certainty and has no evil after effect. Anodyne and sedative in neuralgia sciatica and chronic and acute rheumatism. A reliable antipyretic

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Results of Analysis.				
J. J. COSTIGAN, ACTING INSPECTOR.							
			grs.	grs.	grs.		
One wafer. Repeated in half or one hour if relief be not obtained.	No. 1.	4·9	. . .	3·3	. . .	51327	Meets requirements of P. or P. Act.
	No. 2.	4·0	.....	2·4	.....	.....	
....	No. 1.	5·9	.....	3·8	....	51328	Phenacetin declared as acet phenetidin. Otherwise meets requirements of P. or P. Act.
	No. 2.	5·6	.....	3·6	.....	....	
One wafer. Repeated in an hour if relief is not obtained. A seidlitz powder frequently gives valuable assistance.	No. 1.	12·3	2·6	.....	.....	51329	Meets requirements of P. or P. Act.
	No. 2.	10·4	2·1	. .	.....	....	
.....	No. 1.	7·4	3·8	....	.....	51330	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	7·5	4·0	....	...		
....	No. 1.	6·5	3·2	. .	.....	51331	" "
	No. 2.	7·0	3·3	...	...		
....	No. 1.	6·9	3·2	.....	.....	51332	" "
	No. 2.	7·3	3·4	.....	.....		
One wafer, repeat in an hour if relief is not obtained. Not more than 2 in all should be taken.	No. 1.	8·2	3·9	.....	.....	51333	" "
	No. 2	8·6	4·0	.....	.....		
.....	No. 1.	14·5	6·5	.....	.....	51334	" "
	No. 2.	16·1	7·5	.....	.....		
.....	No. 1.	4·1	2·7	...	.....	51335	Excess acetanilide, not declared. Sold illegally.
	No. 2.	4·8	2·7	...	.. ...		
J. A. RICKEY, INSPECTOR.							
One powder for la grippe, repeated every four hours, for headache, repeated after an hour if not relieved.	No. 1.	10·6	2·0	4·7	.....	*51740	Acetanilide declared. Meets requirements of P. or P. Act
	No. 1.	8·8	1·6	4·1	.....		

*Approximately.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on the Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF OTTAWA—
1913.								and febrifuge, efficient in nervous headache and pains due to irregular menstruations. Phenacetine 5 grs., acetanilide 2 grs. Reg. No. 580. P. or P. Act.
Feb 28	Headache Powders.	51741	J. H. Edwards, Carleton Place.	1 box.	25	Northrop & Lyman Co., Ltd., Toronto.	N. C. Polson & Co., Kingston.	Millers' Headache and Grip. A quick cure for headache and neuralgia pains or pains from any cause. Reg. No. 40. P. or P. Act.
" 28	Headache Tablets.	51742	M. W. Grace, Arnprior.	1 "	25	Standard Mdcl. Co., Smiths Falls.	Mfrs....	"Dows." Give prompt relief in headaches and hysterical paroxysms. Soothes the nerves and produces sleep.
" 27	Headache Powders.	51743	Motard & Cie., St. Patrick St., Ottawa.	1 "	25	.....	.....	This sample is described like No. 1545.
Feb. 27	Headache Wafers.	51744	J. Mundy, St. Patrick St., Ottawa.	1 "	25	Dr. Fred. J. Demers, Montreal.	Mfr.....	This sample is described like No. 51219.
" 28	"	51745	H. Therien, Hull, P.Q.	1 "	25	Dunlop Phar. Co., Montreal.	Mfrs..	This sample is described like No. 37175.
" 28	"	51746	"	1 "	25	Vendor....	.....	"Theriens." A safe and positive relief for all forms of nervous headache or neuralgia. Acetanilide 2 grains in each wafer.
" 28	Headache Pills.	51747	"	1 "	25	Toronto Phar. Co., Toronto.	Mfrs.....	"Neuralgine." A specific for the cure of headache, neuralgia, nervousness, mental strain, sleeplessness, worry, anxiety and all forms of brain fatigue. Reg. No. 95, P. or P. Act.
" 10	Headache Wafers.	51748	P. Daoust et Cie, Hull, P.Q.	1 "	15	Franco Coloniale Medicale Co., Montreal.	"	"Baridons" Improved, for the cure of headache in 10 minutes. Reg. No. 15, P. or P. Act.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grains.	Results of Analysis. Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. A. RICKEY, INSPECTOR.							
			grs.	grs.	grs.		
One powder for adults. 5 years $\frac{1}{8}$ of a powder, 8 years $\frac{1}{4}$ a powder, 12 years $\frac{3}{4}$ of a powder, repeated in one hour if necessary, if after 4 hours pain is not all gone repeat.	No. 1.	5·3	None.	None.	None.	51741	Meets requirements of P. or P. Act.
	No. 2.	5·1	"	"	"		
One tablet. Repeated in $\frac{1}{2}$ an hour if not relieved, and if necessary in one hour but it is not advisable to take more than 3 tablets in succession.	No. 1.	6·7	1·9	.....	. .	51742	" "
	No. 2.	7·0	2·0	.....	....		
... .	No. 1.	6·0	3·7	.....	. ...	51743	Excess acetanilide, not declared. Sold illegally.
	No. 2.	5·1	3·3	.....	.....		
.. ..	No. 1.	7·5	2·5	3·5		*51744	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	6·4	1·9	3·1	.....	.....	
.. ..	No. 1	8·3	2·9	.....	.. ...	51745	" "
	No. 2.	8·2	3·0	...	...	... .	
One wafer, repeat in an hour if necessary.	No. 1.	10·7	2·2	....	.....	51746	" "
	No. 2.	10·1	2·1	.... .	...	.....	
One pill every hour until full relief is obtained, then cease taking.	No. 1.	6·1	1·9	.....	.....	51747	Meets requirements of P. or P. Act.
	No. 2.	6·1	1·5	.....	.....	.....	
One wafer, repeated in an hour if necessary.	No. 1	3·7	... ..	2·4	..	51748	" "
	No. 2.	6·1	. .	4·0	.....	.....	

*Approximately.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on the label.
				Quantity.	Cost.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1913.								
Feb. 10	Headache Wafers.	51749	P. Daoust et Cie, Hull, P. Q.	1 box.	15	J. A. E. Gauvin, Montreal.	.....	This sample is described like No. 1550. Acetainilide acknowledged. Reg. No. 704, P. or P. Act.
DISTRICT OF KINGSTON—								
Mar. 10	Headache Powders.	45780	T. B. Wallace, Belleville.	1 box.	25	Toronto Phar. Co., Toronto.	.....	This sample is described like No. 46961.
" 10	"	45781	F. L. Hooper, Napanee.	1 " .	25	Nyals, Windsor.	.....	This sample is described like No. 46958.
" 10	Headache Wafers.	45782	D. B. Bleeker, Belleville.	1 " .	25	Nat Drug Co., Toronto.	.....	Wafers were loose wrapped in paper.
" 10	Headache Powders.	45783	J. S. McKeown, Belleville.	3 " .	75	United Drug Co., Toronto.	.....	This sample is described like No. 46964.
" 10	"	45784	Belleville Pharmacy, Belleville.	1 " .	25	Nyals, Windsor.	.....	This sample is described like No. 46958.
Feb. 20	Headache Wafers.	53087	W. H. Medley, Kingston.	1 " .	25	Stearns, New York	.....	Wafers were loose wrapped in paper.
" 21	Headache Powders.	53088	T. H. Sargent, Kingston.	1 " .	25	Millers, Chatham.	.....	Powders were loose wrapped in paper.
" 21	"	53089	C. S. Prouse, Kingston.	1 " .	25	Vendor	.....	Powders were loose, wrapped in paper.
" 21	"	53090	A. P. Chown, Kingston.	1 " .	25	"	.....	" "
" 21	"	53091	Geo. Mahood, Kingston.	1 " .	25	United Drug Co., Toronto.	.....	This sample is described like No. 46964.
" 24	"	53093	Belleville Pharmacy, Belleville.	1 " .	25	Nyals Windsor.	.....	This sample is described like No. 46958.
" 25	"	53094	W. H. Semple, Cobourg.	1 " .	25	Ont. Chemists Co., Toronto.	.....	The Chemists. Reg. No. 90 P. or P. Act.
" 25	"	53095	W. J. B. Davison, Port Hope.	1 " .	25	Toro. Phar. Co., Toronto.	.....	This sample is described like No. 46961.
" 26	"	53096	Warne Drug Co., Ltd., Peterboro.	1 " .	25	"	.....	This sample is described like No 46961.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Results of Analysis. Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. A. RICKEY, INSPECTOR.							
			grs.	grs.	grs.		
.....	No. 1.	15·6	3·7	.....	.....	51749	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	14·2	3·4	.....	.....		
JAS. HOGAN, INSPECTOR.							
.....	No. 1.	9·7	1·9	.....	.....	45780	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9·1	1·8	.....	.....		
.....	No. 1.	3·6	2·3	.....	.....	45781	" "
	No. 2.	9·5	3·0	.....	.....		
.....	No. 1.	4·3	None.	None.	None.	45782	Meets requirements of P. or P. Act.
	No. 2.	4·5	"	"	"		
.....	No. 1.	7·8	.....	5·1	.....	45783	Phenacetin declared as acet phenetidin; otherwise meets requirements of P. or P. Act.
	No. 2.	7·5	.....	5·0	.....		
.....	No. 1.	7·3	3·3	.....	.....	45784	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	7·8	3·6	.....	.....		
.....	No. 1.	7·3	3·5	.....	.....	53087	" "
	No. 2.	7·0	3·4	.....	.....		
.....	No. 1.	7·1	None.	None.	None.	53088	Meets requirements of P. or P. Act.
	No. 2.	5·7	"	"	"		
.....	No. 1.	8·1	.....	3·0	.....	53089	Meets requirements of P. or P Act.
	No. 2.	8·0	.....	3·1	.....		
.....	No. 1.	5·7	1·3	2·3	.....	*53090	Meets requirements of P. or P. Act.
	No. 2.	6·1	1·8	1·9	.....		
.....	No. 1.	5·8	.....	3·9	.....	53091	Meets requirements of P. or P. Act.
	No. 2.	8·1	.....	5·3	.....		
.....	No. 1.	8·1	3·7	.....	.....	53093	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	6·8	3·1	.....	.....		
.....	No. 1.	15·7	5·4	.....	.....	53094	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	13·8	4·8	.....	.....		
.....	No. 1.	11·4	2·3	.....	.....	53095	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	12·5	2·5	.....	.....		
.....	No. 1.	9·5	2·0	.....	.....	53096	Acetanilide declared. Meet requirements of P. or P. Act.
	No. 2.	10·4	2·1	.....	.....		

* Approximately.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on the Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF TORONTO—					
1913.								
Feb. 28	Headache Powders	57041	J. L. Nornabell, 465 Bloor st. west, Toronto.	1 doz.	25		The Canadian Phar. Assoc. Toronto.	"Standard" a simple harmless and almost instantaneous relief for headache from any cause. Acetanilide acknowledged. Reg. No. 90 P. or P. Act.
Mar. 4	Headache Wafers.	57042	Owl Drug Co., Ltd., 990 Bathurst st., Toronto.	1 "	25	The Nat. Drug & Chem. Co., Ltd., Toronto.	.....	Na-Dru-Co. No. 591 P. or P. Act.
" 4	Headache Tablets.	57043	D. Campbell, 161 Harbord st., Toronto.	1 box.	20	.....	Dr. Shoop..	"Dr. Shoop's" Prompt relief for headache, neuralgia, toothache, earache, nervousness and sleeplessness. Contain 2 grs. acetphenetidine.
" 5	Headache Powders	57044	Miss S. E. Gallagher, Broadview & Danforth ave., Toronto.	1 doz.	25	Vendor	.....	"Dr. Steadman's," also labelled. Dr. Carroll's contain acetphenetidine and acetanilide.
" 5	"	57045	The Carter Drug Co., 697 Queen st. west, Toronto.	1 "	25	"	.....	"Carter's" specific for sour stomach, cure nervous or sick headache, arising from neuralgia, fatigue, over eating, alcohol or tobacco habit, acetanilide acknowledged. Reg. No. 442 P. or P. Act.
Mar. 6	"	57046	J. A. Lunan, 194 Queen St. East, Toronto.	1 "	25	The J. F. Taylor Phar. Co., Ltd., Toronto.	.....	"Victoria." A safe and sure remedy for the cure of headache and neuralgia. Reg. No. 575. P. or P. Act.
" 6	"	57047	G. Tamblyn, Ltd., 2171 Queen St. East, Toronto.	1 "	25	Vendors ...	.....	"Tamblyns." Cures headache, neuralgia, toothache and sleeplessness. Reg. No. 1021. P. or P. Act.
" 10	"	57048	Estate of J. S. Hanson Drug Store, 444 Spadina Ave., Toronto.	1 "	25	" ...	.....	"Fraser's." Safe, sure and certain to relieve. Reg. No. 519. P. or P. Act.
" 10	"	57049	H. M. Kipp, 168 McCaul St., Toronto.	1 "	25	Vendor.....	.....	"Imperial." Reg. No. 649. P. or P. Act.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Results of Analysis.				
H. J. DAGER, INSPECTOR.							
			grs.	grs.	grs.		
One powder repeated in ½ an hour if required.	No. 1.	12·2	4·8	...	.....	57041	Acetanilide declared, Meets requirements of P. or P. Act.
	No. 2.	8·8	3·6	.....	... .		
One wafer three times a day, the dose may be repeated in ½ an hour if necessary.	No. 1.	4·6	None.	None.	None.	57042	Meets requirements of P. or P. Act.
	No. 2.	4·6	"	"	"		
One tablet repeated in 20 minutes if not entirely relieved.	No. 1.	20·2	... .	1·2	.....	57043	Meets requirements of P. or P. Act.
	No. 2.	20·3	...	1·3	.....		
One powder repeated in an hour if required. Do not repeat for 3 hours.	No. 1.	7·1	2·7	3·4	....	*57044	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	7·2	2·7	3·5	.....		
One powder repeated in ½ an hour if not relieved. Children under 12 years ¼ of a powder.	No. 1.	16·9	4·1	.....	... ..	57045	Acetanilide declared· Meets requirements of P. or P. Act.
	No. 2.	20 5	5·6	....	.....		
One powder. Repeat in ½ an hour if necessary. Children ½ or part of a powder according to age.	No. 1.	7·9	1·8	.....	.....	57046	Meets requirements of P. or P. Act.
	No. 2.	8·3	2·1				
One powder, repeated in an hour if necessary.	No. 1.	7·4	.....	2·2	1·2	57047	" "
	No. 2.	6·8	.....	2·6	1·2		
One powder, repeated in an hour, and again in 2 hours.	No. 1.	8·8	.....	5·8	....	57048	Slight excess of phenacetin, without declaration.
	No. 2.	9·3	....	6·1			
One powder, repeated in ½ an hour if not relieved. Do not repeat needlessly.	No. 1.	9·8	2·0	. ...	.....	57049	Meets requirements of P. or P. Act.
	No. 2.	10·3	2·2				

* Approximately.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Description as found on Label.
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF TORONTO—
1913.								
Mar. 12	Headache Powders.	57050	W. A. Ellis, 148 Avenue Road, Toronto.	1 doz.	25	Vendor.....	....	"Red Seal." Speedy and safe in the relief cure of headache, neuralgia and lagrippe. Reg. No. 1215. P. or P. Act.
								DISTRICT OF HAMILTON—
April 8	Headache Powders.	57141	M. H. Robertson, Market and Dalhousie Sts., Brantford.	1 doz.	25	Vendor.....		"Robertson's." Reg. No. 1012. P. or P. Act.
" 8	" .	57142	C. A. C. Cameron, Colborne St., Brantford.	1 " .	25	" ...	...	"Ewens." A speedy and safe remedy. Stamp on package.
" 10	Headache Wafers.	57143	Apps Ltd., Paris..	1¼ " .	25	Vendors....		"Apps" Saffron. A speedy, certain and safe remedy for headaches, also relieves in neuralgia. Reg. No. 2209. P. or P. Act.
" 10	Headache Powders.	57144	J. S. Armitage, Paris.	1 doz.	25	Vendor	....	"Armitage's." They cure instantly sick or nervous headache. A positive relief in neuralgia.
" 14	" .	57145	W. A. Coleberry, Dunnville.	1 " .	25	" ...	....	"Dr. Michener's." A prompt and safe remedy for nervous and sick headache, neuralgia and lagrippe. Reg. No. 395. P. or P. Act.
" 14	" .	57146	R. A. Harrison, Dunnville.	1 " "	25	"	...	Powders were loose wrapped in paper.
April 17	Headache Tablets.	57147	Wm. Erskine, 15 James Street, St. Catherines.	1 box.	25	Vendor...	... .	"Rheumatic Tablets." Positively cures rheumatism, neuralgia, toothache, lumbago, sciatica, headaches. "Erskine's Nox a Pain Tablets" relieve all feverish conditions, ovarian and uterine, and acts as a permanent cure.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Results of Analysis. Weight of Powder in Grains.	Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
H. J. DAGER, INSPECTOR.							
			grs.	grs.	grs.		
One powder, repeated in ½ an hour if not relieved. Do not repeat for 4 hours.	No. 1	12·6	...	3·5	.....	57050	Meets requirements of P. or P. Act..
	No. 2.	11·9	.....	3·3			
H. J. DAGER, ACTING INSPECTOR.							
.....	No. 1.	6·3	.....	2·7	..	57141	Meets requirements of P. or P. Act.
	No. 2.	6·8	.....	3·0			
One powder, repeated in ½ an hour if necessary, then do not repeat for at least 4 hours.	No. 1.	10·3	1·4	1·6	...	*57142	" "
	No. 2.	12·7	1·8	1·9			
.....	No. 1.	5·1	1·5	.....	..	57143	" "
	No. 2.	6·6	2·8				
One powder, repeated in an hour if necessary.	No. 1.	12·0	8·0	....	.....	57144	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8·6	5·4				
.....	No. 1	6·5	2·5	..	....	57145	Meets requirements of P. or P. Act.
	No. 2	7·4	2·4				
One powder, repeated in ½ an hour if necessary.	No. 1.	4·5	...	1·5	.....	57146	" "
	No. 2.	6·0	... ..	2·0			
.....	No. 1.	6·2	2·2	.....	.....	57147	Meets requirements of P. or P. Act.
	" 2.	6·1	2·1	..	....	....	

* Approximately.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturers or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Description as found on Label.
DISTRICT OF HAMILTON—								
1913.								
April 17	Headache Powders.	57148	Ervin C. McNally, 60 Erie Ave., Niagara Falls.	1 box.	35	Vendor		No registration No. on box or powders.
" 19	"	57149	A. E. Drewery, 108 James st. south, Hamilton.	1 doz.	25	Toronto Phar. Co., Toronto.		This sample is described like No. 46963.
" 23	"	57150	W. B. Smith, 245 King street east, Hamilton.	1 "	25	Vendor		"Smith's" Acetanilide, 5 grains.
DISTRICT OF WINDSOR—								
Mar. 4	Headache Powders.	47957	S. F. Parke & Co., Chatham.	1 pkge	25	Nyals.		"Nyal's."
" 4	"	47960	J. G. Clark, Chatham.	1 "	25	Drnggists Corporation, Toronto.		"D. C." contains Phenyl-acetamide and other effective pain relieving remedies. Reg. No. 642 P. or P. Act.
" 4	"	47962	Powell Davis Co., Chatham.	1 "	25	Nyals, Windsor.		"Nyal's."
" 4	"	47963	A. J. McCall & Co., Chatham.	1 "	25	Hoffman Drug Co., Bridgeburg.		This sample is described like No. 51217.
" 5	"	47965	W. A. Pond, Windsor.	1 "	25	Toronto Phar. Co., Toronto.		"Perfect." Reg. No. 1276 P. or P. Act.
" 5	"	47966	F. H. Laing, Windsor.	1 "	25	Vendor		"Laing's." Reg. No. 959 P. or P. Act.
" 5	"	47968	Gardner Pickard Drug Co., Windsor.	1 "	25	Vendors		"Gardner." A positive cure for headaches of all origins. Reg. No. 2143 P. or P. Act.
" 5	"	47972	A. J. Wilkinson, Windsor.	1 "	25	Vendor		Reg. No. 851 P. or P. Act.
" 6	"	47978	S. H. Sadler, Essex	1 "	25	Toronto Phar. Co., Toronto.		"Perfect."
6	"	47984	Theo. B. S. Tweedale.	1 "	25	Nyals, New York and London.		"Nyal's."

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powder.	Weight of Powder in Grains.	Results of Analysis. Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			grs.	grs.	grs.		
H. J. DAGER, ACTING INSPECTOR.							
One powder every three hours until headache ceases.	No. 1.	3·4	. . .	3·3		57148	Meets requirements of P. or P. Act.
	No. 2.	4·2	. .	4·1		. . . .	
. . . . .	No. 1.	9·7	2·0	. .	. . . . .	57149	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9·7	2·0	. . .	. . .	. .	
One powder, and repeat in half an hour if not relieved.	No. 1.	8·3	5·2	. .	. .	57150	" "
	No. 2.	11·1	7·0	. .	. .	. .	
JNO. TALBOT, INSPECTOR.							
. . . . .	No. 1.	4·8	2·8	. . .	. . .	47957	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	3·9	2·3	. . .	. . . .	. . . .	
One powder, repeat in half an hour if not relieved. Do not repeat again for four hours.	No. 1.	9·4	3·6	. .	. . . . .	47960	" "
	No. 2.	9·0	3·2	. .	. . . .	. . . .	
. . . . .	No. 1.	2·1	1·3	. .	. .	47962	Meets requirements of P. or P. Act.
	No. 2.	1·4	0·9	. .	. .	. . . .	
. . . . .	No. 1.	9·9	4·3	. .	. .	47963	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	10·3	4·6	. . .	. .	. .	
One powder, repeat in half an hour if not relieved. Do not repeat needlessly.	No. 1.	9·0	1·9	. . . .	. .	47965	Meets requirements of P. or P. Act.
	No. 2.	9·1	1·9	. . . . .			
One powder, repeat in an hour if necessary.	No. 1.	7·7	2·4	. . . .	. .	47966	"
	No. 2.	5·8	2·1	. . .	. . .	. . . .	
One powder, repeated in two hours if necessary. But not again for three hours.	No. 1.	5·1	3·3	. . . .	. . . .	47968	Excess of acetanilide.
	No. 2.	5·9	3·8	. . . .	. .	. . . .	
. . . .	No. 1.	9·5	. .	3·8	. .	47972	Meets requirements of P. or P. Act.
	No. 2.	4·9	. . .	1·7	. . .	. . . .	
. . . . .	No. 1.	10·8	4·0	. .	. . .	47978	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	10·8	3·7	. .		. . .	
. . . . .	No. 1.	5·3	3·3	. . . . .	. .	47984	" "
	No. 2.	5·5	3·6	. . . . .		. . . .	

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Description as found on Label.
						DISTRICT OF MANITOBA—		
1913.								
Feb. 25	Headache Powders.	48835	P. T. Braund, Portage Ave., Winnipeg.	1 box.	25	Unknown ..	Unknown .	"Nyals."
26	"	48836	Public Drug Co., Winnipeg.	1 "	25	Toronto Phar Co., Toronto.	Mfrs. .	"Perfect."
26	" ..	48837	" "	1 "	25	The Druggists Corporation of Canada, Toronto.	Unknown ..	This sample is described like No. 47960.
26		48838	The Gordon Mitchell Drug Co., Winnipeg.	1 "	25	Knapp & Co, Berlin. Ger.	.....	"German." Each powder contains acetanilide 4 grains phenacetin 2 grains
26	.	48839	" "	1 "	25	United Drug Co., Toronto.	.. ..	"Rexall."
27	.	48840	Colcleugh & Co., Notre Dame and Sherbrooke, Winnipeg.	1 "	25	Vendors....	... .	"Colcleugh." Reg. No. 817. P. or P Act.
27	.	48841	" "	1 "	25	T. Milburn Co., Ltd., Toronto.	Unknown ..	This sample is described like No. 50592.
27		48842	D. W. Bradshaw, Notre Dame ave., Winnipeg.	1 "	25	"	.. ..	This sample is described like No. 50592.
Mar. 13	" .	48843	St. John Pharmacy, Winnipeg.	1 "	25	The Toronto Phar. Co., Ltd., Winnipeg.	.....	"Perfect."
14	" .	48844	W. G. Lang, Norwood Grove.	1 "	25	Vendor.....	..... .	"Langs."
						DISTRICT OF ROCKY MOUNTAINS—		
Mar 4	Headache Tablets.	49823	Rutherford Drug Co., Nelson, B.C.	3boxes	75	Vendors....	... .	"Rutherford's Safe." For billious and nervous headaches.
4	Headache Wafers.	49824	" "	3 "	75	The Zymole Co., New York.	.. ..	This sample is described like No. 50598.
4	Headache Powders.	49828	Poole Drug Co., Nelson, B.C.	3 "	75	United Drug Co., Toronto.	.....	This sample is described like No. 46964.
13	Headache Wafers.	49854	J. Wylie, Hosmer, B.C.	3 "	75	Dunlop Phar. Co., Montreal.	... .	This sample is described like No 37195.
13	Headache Powders.	49855	" "	3 "	30	New York and London Drug Co,, N.Y.	.....	This sample is described like No 46958.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grains.	Results of Analysis. Acetanilide—Antifebrin.	Phenacetin.	Antipyrine—Phenazone.	No. of Sample	Remarks and Opinion of the Chief Analyst.
A. E. LARIVIÉRE, INSPECTOR,							
			grs.	grs.	grs.		
.....	No. 1.	4·7	3·0	.....		48835	Aectanilide declared. Meets
	No. 2.	5·8	3 7	... ...			requirements of P. or P. Act.
One powder, repeated in ½ an hour if not relieved. Do not repeat needlessly.	No. 1.	9·4	1·9	... .		48836	Meets requirements of P. or P. Act.
	No. 2.	10·1	2·0	... ...			
.....	No. 1.	7·8	2·3	... ...		48837	Acetanilide declared. Meets
	No. 2.	9·0	2·8	... ...			requirements of P. or P. Act
.....	o. 1.	11·2	3·8	2 2	... ...	*48838	" "
	No. 2.	9 7	3·6	1 6	... ...		
.....	No. 1.	4·0	... ...	2·5	... ...	48839	Meets requirements of P. or P.
	No. 2.	4·9	....	5·2	..		Act.
One powder, if not relieved in an hour another powder may be taken.	No. 1	9 8	.....	6·2	.....	48840	Slight excess of phenacetin in one powder.
	No. 2.	8·8	...	4·8	.....		
.....	No. 1.	16·1	6 5	..		48841	Acetanilide declared. Meets
	No. 2.	15·6	7·1	... ..	..		requirements of P. or P. Act
.....	No. 1.	12·4	5·0	..		48842	" "
	No. 2.	14·2	5·6	....	...		
One powder, repeated in ½ an hour if not relieved. Do not repeat needlessly.	No. 1.	9·5	1·9	...		48843	Meets requirements of P. or P. Act.
	No. 2.	8·5	1·6	....	.....		
One powder, if not relieved in an hour another powder may be taken.	No. 1.	4·3	2·2		....	48844	" "
	No. 2.	4·3	2·2	...			
THOS. PARKER, INSPECTOR.							
One tablet, repeated in ½ an hour if relief is not obtained.	No. 1.	5·5	3·2	...	....	49823	Excess acetanilide in both
	No. 2.	5·5	3·2	...	.....		powders.
.....	No. 1.	8·2	3·9	...		49824	Acetanilide declared. Meets
	No. 2.	8·6	4·1	...	...		requirements of P. or P. Act.
.....	No. 1.	7 3	...	4·8		49828	Phenacetin declared as acetphenetidin. Meets requirements of P. or P. Act.
	No. 2.	7 3	.....	4·7			
.....	No. 1.	9·4	3·0	...		49854	Acetanilide declared. Meets
	No. 2.	7 9	2·9	... ...			requirements of P. or P. Act.
.....	No. 1.	3·3	2 1	...	...	49855	"
	No. 2.	5·5	3·4	... ...	...		

*Approximately.

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer of Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Description as found on the label.
DISTRICT OF ROCKY MOUNTAINS—								
1913.								
Mar. 17	Headache Wafers	49862	C. R. Macdonald, Revelstoke, B.C.	3 bxs.	75	Nat. Drug & Chem. Co., Montreal.	....	Na-Dru. Co., Reg. No. 591, P. or P. Act.
17	Headache Tablets.	49865	Walter Bews, Revelstoke, B.C.	3 "	75	Vendors	....	"Perfect." Contain 5 grs. phenacetin salol 5 grains and caffein. ½ gr.
April 7	Headache Powders.	49868	A. Reeves, Enderby, B.C.	2 "	75	Toronto Phar. Co., Toronto.	....	This sample is described like No. 46973.
" 7	"	49869	"	3 "	75	New York & London Drug Co., N.Y.	....	This sample is described like No. 46958.
" 9	"	49875	E. T. Abbott, Armstrong, B.C.	3 "	75	Toronto Phar. Co., Toronto.	....	This sample is described like No. 46973.
DISTRICT OF VANCOUVER								
Mar. 6	Headache Powders.	53441	Leslie Henderson, Georgia and Granville Sts., Vancouver, B.C.	1 pkg.	25	Vendor	....	"Gilmours." Reg. No. 809, P. or P. Act.
6	"	53442	Burns & Cairns, Vancouver Block, Vancouver, B.C.	1 "	25	Druggists Corporation Co., Toronto.	....	This sample is described like No. 47960.
6	Headache Wafers.	53443	Vancouver Drug Co., Richard and Hastings Sts., Vancouver, B.C.	1 "	25	Manchester Drug Co., Toronto.	....	"Reids." A safe and positive relief for all forms of nervous headache and neuralgia. Specific in rheumatic and menstrual pains, relieve sleeplessness. Reg. No. 1560, P. or P. Act.
" 6	Headche Powders.	53444	Brown & Dawson, 439 Hastings St. West, Vancouver, B.C.	1 "	25	Toronto Phar. Co., Toronto.	....	This sample is described like No. 46961.
6	Headache Wafers.	53445	McDuffey Bros., 132 Hastings St. West, Vancouver, B.C.	1 "	25	The Zymole Co., New York.	....	This sample is described like No. 50598.
" 6	Headache Powders.	53446	Owl Drug Co., Abbott and Cordova Sts., Vancouver, B.C.	1 "	35	Hoffman Drug Co., Bridgeburg, Ont.	....	This sample is described like No. 51217.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Results of Analysis. Weight of Powder in Grains.	Acetanilide Antifebrin.	Phenacetin.	Antipyrine Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			grs.	grs.	grs.		
THOS. PARKER, INSPECTOR.							
One wafer, repeated in ½ an hour if necessary. For rheumatic pains one wafer 3 times a day.	No. 1.	4·3	None.	None	None.	49862	Meets requirements of P. or P. Act.
	No. 2.	4·4	"	"	"		
One tablet every 4 hours	No. 1.	10·1	.....	4·2	.....	49865	" "
	No. 2.	10·1	.....	3·9	....		
.....	No. 1.	9·1	1·9		....	49868	" "
	No. 2.	9·8	2·1	.....	..		
.....	No. 1.	4·9	3·1	..	.....	49869	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	3·5	2·2	....	....		
.....	No. 1	11·5	2·4	.....	..	49875	Meets requirements of P. or P. Act.
	No. 2.	11·4	2·4	....	..		
J. F. POWER, INSPECTOR.							
On powder, repeated in ½ an hour if necessary.	No. 1.	10·2	.....	3·0	.....	53441	Meets requirements of P. or P. Act.
	No. 2.	9·9	.....	2·9	.....		
.....	No. 1	9·1	2·8	....	....	53442	Actanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9·6	3·0	.....	.....		
One wafer repeated in an hour if necessary.	No. 1.	13·4	2·7	.....	...	53443	Meets requirements of P. or P. Act.
	No. 2.	11·8	2·4	.....	...		
.....	No. 1.	10·7	1·9	.....	.....	53444	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8·1	1·6	.....	.....		
.....	No. 1.	8·3	3·8	.....	.....	53445	" "
	No. 2.	8·3	3·8	...	.....		
.....	No. 1.	10·6	4·5	.....	.....	52446	" "
	No. 2.	11·3	4·9	.....	.....		

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Description as found on the label.
								DISTRICT OF VANCOUVER—
1913.								
Mar. 6	Headache Wafers.	53447	Central Drug Store, 16 Cordova St., Vancouver, B.C.	1 kg.	25	Wampole & Co., Perth, Ont.		"Gilvans." A positive cure for all forms of nervous headache and neuralgia. Acetanilide, 4½ grains, C. D. Gillanders.
" 10	Headache Powders.	53448	W. E. Adams, Pender and Burrard Sts., Vancouver, B.C.	1 "	25	"		"Almas." For sick or nervous headache, neuralgia, rheumatic and menstrual pains, sleeplessness and nervousness. Acetanilide 4½ grs.
" 10	"	53449	Manhattan Pharmacy, Robson & Thurton sts., Vancouver, B.C.	1 "	25	Gibson, Howell Co., Philadelphia, Pa.		"Gibson's" This Sample is described like No. 53448.
" 10	"	53450	Harrison's Drug Store, Robson & Granville sts., Vancouver, B.C.	1 "	25	Rexall Co., Toronto.		This sample is described like No. 46964.
								DISTRICT OF VICTORIA—
Mar. 10	Headache Wafers.	53520	F. J. Williams, 613 Fort st., Victoria, B.C.	1 doz.	25	Stearns, Detroit, Mich.		This sample is described like No. 50598.
" 10	"	53522	D. E. Campbell, 650 Fort st., Victoria, B.C.	1 "	25	"		"
" 10	Headache Powders.	53524	Terry's Drug Store, 705 Fort st., Victoria, B.C.	1 "	50	H. K. Wampole, Perth, Ont.		This sample is described like No. 53448.
" 10	Headache Wafers.	53526	Geo. A. Fraser Co., 912-914 Govt. st., Victoria, B.C.	1 "	25	Stearns, Detroit, Mich.		This sample is described like No. 50598.
" 10	"	53528	Cyrus H. Bowes, 1228 Govt. st., Victoria, B.C.	1 "	25	New York & London Drug Co., New York.		This sample is described like No. 51333.
" 10	"	53530	Ivel's Pharmacy, 1415 Govt. st., Victoria, B.C.	1 "	25	Toronto Ph. Co., Toronto.		"Ivel's." This sample is described like No. 53447.
" 11	"	53532	Dean & Hiscocks, 627 Yates st., Victoria, B.C.	1 "	25	New York & London Drug Co.		This sample is described like No. 51333.
" 11	Headache Powders.	53534	John Cochran, 1300 Douglas st., Victoria, B.C.	1 "	25	"		This sample is described like No. 46958.
" 11	Headache Wafers.	53536	W. Jackson & Co., Victoria, B.C.	1 "	25	Dom. Drug Co., Hamilton.		Wafers were loose wrapped in paper. Acetanilide acknowledge.
" 11	Headache Powders.	53538	Hall & Co., 702 Yates st., Victoria, B.C.	1 "	25	New York & London Drug Co., New York.		This sample is described like No. 46958.

SESSIONAL PAPER No. 14

HEADACHE POWDERS.

Directions for use as found on the Label.	Powders.	Weight of Powder in Grains.	Results of Analysis. Acetanilide = Antifebrin.	Phenacetin.	Antipyrine = Phenazone.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. F. POWER, INSPECTOR.			grs.	grs.	grs.		
One wafer repeated in 30 minutes if necessary. At least 3 hours should elapse before repeating again. A seidlitz or other mild laxative should be taken with the first dose.	No. 1.	14·6	5·5	.....	.	53447	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	14·9	5·8	...	.		
One powder, repeated in 20 or 30 minutes if necessary. For neuralgia and rheumatic pains one powder every 2 or 3 hours, as required. For sleeplessness and nervousness one powder on retiring, to be repeated in one hour if sleep is not produced. For children reduce dose according to age.	No. 1.	12·4	4·7	...		53448	"
	No. 2	13·8	5·2	...			
.. ..	No. 1.	11·4	4·2	...	.....	53449	"
.	No. 2.	12·9	4·8	...	.....		
... .	No. 1.	7·1	...	4·8	...	53450	Phenacetin declared as acetphenetidin. Otherwise meets requirements of P. or P. Act.
	No. 2.	6·9	.....	4·6	....		
D. O'SULLIVAN, INSPECTOR.							
... .	No. 1.	8·9	4·2	..	.....	53520	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	9·4	4·4	...	.....		
....	No. 1.	7·3	3·5	.....	.....	53522	Acetanilide declared. Meets reqnirements of P. or P. Act.
	No. 2.	7·9	3·7	.....	....		
... ...	No. 1.	14·0	5·2	.....	.....	53524	Acetanilide declared. Meets requirements of P. or P. Act.
.	No. 2.	11·4	4·3	...	..		
.. . .	No. 1.	4·9	2·4	...	..	53526	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	5·5	2·6	.....	.		
. .. .	No. 1.	8·5	4·0	..	.	53528	Acetanilide declared. Meet requirements of P. or P. Act.
	No. 2.	8·4	4·0	.....	..		
... .	No. 1.	15·5	5·8	.	...	53530	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	13·1	4·7	..	...		
. ...	No. 1.	8·1	3·9	.....	..	53532	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8·5	4·0	.....	...		
.. .. ..	No. 1.	6·9	3·2	...	...	53534	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	6·1	3·0	.....	....		
.. ..	No. 1.	3·9	3·2	.....	...	53536	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	5·1	3·9	.....	...		
.....	No. 1.	7·9	3·7	... .	...	53538	Acetanilide declared. Meets requirements of P. or P. Act.
	No. 2.	8·2	3·9	. .			

APPENDIX L.

BULLETIN No. 269—DRIED AND PACKAGED FRUIT.

OTTAWA, November 5, 1915.

WM. HIMSWORTH ESQ.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report dealing with 176 samples collected by our inspectors during June, July and August of this year as Dried and Packaged Fruit. The collection is made up as follows:—

	Samples.
Raisins	53
Currants	26
Prunes	33
Figs	32
Dates	10
Apples	11
Apricots	6
Peaches	3
Pears	1
Canned apples by mistake	1
Total	176

Our last systematic inspection of Dried and Packaged Fruit was made in April and May of 1910, and is published as Bulletin No. 212.

That report dealt more particularly with Packaged Fruit; and most of the samples were sold in Cartons ostensibly holding one pound weight of fruit; and it was found that a very large proportion of the samples obtained approximated that weight.

In the present case 83 samples were obtained from broken bulk packages; so that only 92 samples of Packaged Fruit are reported.

Packaged figs are, as a rule, put up in small cartons or boxes, containing from 6 to 12 ounces net weight.

Other packaged fruits are usually put up in nominal one pound cartons; and the great majority of these packages examined, are found to contain about 15 ounces net.

Samples weighing less than 15 ounces are as follows:—

	Samples.
Currants	7
Raisins	7
Dates	9
Prunes	1
Total	24

The Adulteration Act does not specify short weight as constituting Adulteration; nor are manufacturers required to declare the net weight of Packaged goods. This I

regard as a weak point and I would advise that if a package is sold by weight, any purchaser finding that short weight has been delivered may seek redress under the provisions of the weights and measures act.

The packaging of fruit, spices, and very many widely used foods, is a comparatively modern innovation. It has much to recommend it as conducing to cleanliness; but it is open to abuse; and the packages should be required to be either multiples or submultiples of one pound; or the actual net weight should be printed upon the package. This however cannot be inforced as there is no Act on the Statute Books establishing the weight of packages of food.

Section 3 (e) declares an article of food to be adulterated, "If it consists wholly or in part of a diseased or decomposed or putrid or rotten animal or vegetable substance, whether manufactured or not." Under this definition I am compelled to classify the samples now reported, as below:—

	Samples.
Satisfactory	138
Doubtful	20
Adulterated	17
Collected by mistake	1
Total	176

The adulterated samples comprise:—

	Samples.
Figs	9
Prunes	5
Apples	1
Apricots	1
Pears	1
Total	17

In the case of perishable food, such as fruit, it is reasonable to hold the vendor strictly responsible for the character of the article as sold by him.

It is indeed doubtful whether the packer could be expected to furnish a warranty for goods of this class, once they have left his hands. Many of the cartons are fly-specked, and discoloured in such a way as to suggest that they have been a long time in the dealer's possession, and exposed to light.

I have used the work "Doubtful" to indicate presence of unsoundness, worms or dirt, but in a degree less well marked than might be held to be required by Section 3 (e) of the Act, as constituting adulteration.

I beg to recommend publication of this report as Bulletin No. 269.

I have the honour to be, Sir,
Your Obedient Servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
DISTRICT OF NOVA SCOTIA—								
1913								
July 7	Raisins...	54102	Morrison & Williams, Halifax, N.S.	3 pkgs	22	Guggenheim Co., California.	J. W. Goreham, Halifax, N.S.	....
" 7	Currants .	54103	"	3 "	22	Hills Bros., New York.	"	.....
" 8	Raisins...	54104	Bauld Bros., Ltd., Halifax, N.S.	3 "	24	Kings Co., Mfrs Fruit Co., Armona, Ca		.....
" 8	Currants.	54105	"	3 "	24	Hills Bros., New York.,	"	"Royal Excelsior" Brand.
" 8	Peaches ..	54106	A. L. Doyle & Co., Halifax, N.S.	3 "	45	Kings Co., Fruit Co., Armona, Cal	Dunn Co., Montreal.	.....
" 8	Apricots..	54107	"	3 "	30	"	"	.....
" 9	Prunes....	54108	"	3 "	30	Unknown		.....
" 9	Figs. .	54109	Wentzells, Ltd., Halifax, N.S.	3 "	18	" ...	James Ballain, Agt., Halifax, N.S.	.....
" 11	Figs.....	54110	R. B. Adams & Co., Halifax, N.S.	3 "	20	" ...	Jno. Tobin & Co., Halifax, N.S.	.....
" 17	Figs.. ..	54111	Wentworth Stores, Windsor, N.S.	3 "	12	"	A. & W. Smith Co., Halifax, N.S.	.....
DISTRICT OF NORTHERN NOVA SCOTIA AND CAPE BRETON—								
Aug. 7	Currants..	53701	J. F. Doull, New Glasgow, N.S.	2 lbs.	20	... .	R. McGregor, New Glasgow, N.S.	....
" 7	Raisins. .	53704	"	2 "	20	Fresno Packing Co., Fresno, Co., Cal.		.....
" 7	Prunes .	53706	The 2 Barkers Co., New Glasgow, N.S.	2 "	26	.....	The 2 Barkers, Ltd., St. John, N.B.	.....
7	Figs	53707	"	2 "	26	.....	"	.....
" 7	Prunes..	53708	A. A. McDonald, New Glasgow, N.S.	2 "	30	J. K. Armsbury Co., Fresno, Cal.		.....
7	Raisins...	53709	D. C. McKay.	2 "	24	"	.....	.....

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Brand.	Kind of Fruit and Nature of Package.	Results of Analysis. Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.									
Pansy	Raisins in a cardboard carton.	15·5	Genuine.	Good and large size.	Sound	Clean.		54102	Satisfactory.
Three C	Currants in a cardboard carton.	15	"	Good, good size.	"	"		54103	"
Red Bird	Raisins in a cardboard carton.	16	"	"	"	"		54104	"
	Currants in a cardboard carton.	15	"	"	"	"		54105	"
	Peaches in bulk.	9	"	Good and large size.	"	"		54106	"
	Apricot in bulk.	9	"	Good and good size.	"	"		54107	"
	Prunes in bulk.	15·5	"	Good, med.	"	"		54108	"
	Figs in bulk.	7·5	"	Good and good size.	"	"		54109	"
	"	10	"	Poor, good size.		Dirty.	worms	54110	Adulterated.
	"	8	"	"	Sound	"	"	54111	"
M. DELORY, TEMPORARY INSPECTOR.									
Victory	Currants in cardboard carton.	15·5	Genuine.	Good and good size.	Sound			53701	Satisfactory.
Red Ribbon	Raisins in cardboard carton.	16	"	"	"			53704	"
	Prunes in bulk.	14	"	Good and med. size.	"			53706	"
	Figs in bulk.	16	"	Good and good size.			Sugar mites and a few worms.	53707	Doubtful.
	Prunes in bulk.	16	"	Good, large.	Sound	Clean.		53708	Satisfactory.
Elk	Raisins in cardboard carton.	15·5	"	Good and good size.	"	"		53709	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
DISTRICT OF NORTHERN NOVA SCOTIA AND CAPE BRETON								
1913.								
Aug. 7	Currants	53710	D. C. McKay.	2 lbs.	20		R. McGregor, New Glasgow, N.S.	
" 8	Raisins	53712	D. J. Murray.	2 "	24	The J. K. Armsbury Co., Fresno, Cal.		
" 8	Currants	53714	"	2 "	20		R. McGregor, New Glasgow.	
DISTRICT OF NEW BRUNSWICK—								
June 20	Raisins	50601	2 Barkers Ltd., St. John, N.B.	3 pkgs	21	Frank Lyman Co., Fresno, Cal.		No. 9744.
" 20	Prunes	50602	"	3 "	30	Phœnix Packing Co., Cal., U.S.A.		Bulk prunes.
" 23	Currants	50603	Walter Gilbert, St. John, N.B.	3 "	30	The Hills Bros., New York.		"Royal Excelsior" Brand.
" 24	Figs	50604	W. A. Porter, St. John, N.B.	3 "	45	Unknown	Unknown	Turkish Figs. Old stock. Would not guarantee quality.
" 24	Raisins	50605	James Collins, St. John, N.B.	3 "	30	Phœnix Packing Co., Cal., U.S.A.		"Santa Claus" Brand.
July 8	Figs	50606	The Yerxa Grocery Co., Fredericton, N.B.	1½ lb.	20		A. L. Goodwin, St. John, N.B.	"Fountain" Brand.
" 9	Dates	50607		3 lbs.	27		"	Bulk Dates.
" 10	Currants	50608	B. Beveridge, Andover, N.B.	3 pkgs	30	Jones & Schofield, St. John, N.B.		"Holly" Brand Cleaned Currants.
" 23	Prunes	50609	H. T. Brewster, Moncton, N.B.	3 lbs.	36		Reed & Co., Moncton.	'Cutting' Brand. Calif'nia Fruit Canners Ass'n, Hanford Co., Santa Clara Prunes.
" 23	Figs	50610	D. A. McBeath, Moncton, N.B.	3 box's	36		A. L. Goodwin, St. John, N.B.	Turkish Figs, "Mignon" Brand.

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Concluded.

Brand.	Kind of Fruit and Nature of Package	Net weight of contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Results of Analysis.							
Blue Ribbon	Currants in cardboard carton.	16	Genuine.	Good and large size.	Sound	Clean		53710	Satisfactory.
Gold Ribbon	Raisins in cardboard carton.	16·5	"	"	"	"		53712	"
Blue Ribbon	Currants in cardboard carton.	17	"	Good and good size.	"	"		53714	"

J. C. FERGUSON, INSPECTOR.

Lymans	Raisins, in cardboard carton.	16	Genuine.	Good, and good size.	Sound	Clean.		50601	Satisfactory.
	Prunes, in bulk.	15	"	Good, and med. size.	"	"		50602	"
Royal	Currants, in cardboard carton.	14	"	Good, and good size.	"	"		50603	14 oz. net. Otherwise satisfactory.
	Figs, in bulk	12	"	"	"		Sugar mites	50604	Doubtful.
Santa Claus	Raisins, in cardboard carton.	16	"	Good, and large size.	"	Clean.		50605	Satisfactory.
	Figs, in bulk	8	"	Good, and good size.		Dirty. Worms.		50606	Adulterated.
	Dates, in paper bag.	16	"	Fair, and good size.	Sound	"		50607	Doubtful.
Holly	Currants, in cardboard carton.	14	"	Good, and good size.	"	Clean.		50608	14 oz. net. Otherwise satisfactory.
	Prunes, in bulk.	16	"	Good, and small size.	"	"		50609	Satisfactory.
Mignon	Figs, in paper, in wooden box.	6	"	Fair, and good size.	Decayed.		Large number of mites	50610	Adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF QUEBEC—		
1913.								
June 17	Currants	37050	Alfred Marcotte, Charlebourg.	3box's	30	Patras-Pyrglos Amalico & Calamatas, Greece.	Bedard & Fréré.	
" 17	Raisins	37051	"	3 "	30	Arakelian Bros Co., Fresno, Cal.	"	
" 18	Currants	37052	P. Legare, Charlebourg.	3 "	30	Patras-Pyrglos Amalico & Calamatas, Greece.	N. Turcot & Cie.	
" 18	Raisins	37053	"	3 "	30	Rosenberg Bros. & Co., Cal.	"	
" 18	"	37054	T. Goudreault, Limoilou.	3 "	36	Griffin & Kelly, Cal.	J. B. E. Letellier.	
" 18	Currants	37055	"	3 "	36	A. T. Zini, Patras, Greece.	"	
" 19	Apples	37056	Louis Verreault, Limoilou.	1½ lb.	23	Unknown	Turcotte & Frére.	
" 19	"	37057	A. Lachance, Limoilou.	1½ "	23	"	Quebec Preserving Co.	
" 19	Raisins	37058	"	3box's	45	Madison & Bonner, Cal.	"	
" 19	Currants	37059	"	3 "	45		"	"Blue Bell" Brand.
						DISTRICT OF EAST QUEBEC—		
June 24	Prunes	53325	Dame J. A. Poliquin, Montmagny	3box's	45	Rosenberg Bros. & Co., Cal.		
" 24	"	53329	A. N. Normand Montmagny.	3 lb.	45	Cal. Fruit Co., Hanford, Cal.	J. B. Reneaud, Quebec.	
" 24	Figs	53330	"	3 "	30		"	
" 24	Prunes	53333	A. Bouli, Montmagny.	3 "	36		Griffin & Skelly, Quebec.	
" 24	"	53334	Ad. Caron, Montmagny.	3 "	36		"	
July 2	Figs.	53343	R. Lesperance, Montmagny.	3box's	30		White Sleede Turner, Quebec.	
" 3	Prunes	53345	"	3 lbs.	39		"	
" 3	Figs	53352	F. I. Caron, Cap St. Ignace.	3 "	36	Unknown	Unknown	
" 4	"	53359	F. Lavale, St. Jean Port Joli.	3 "	45	"	"	

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Brand.	Kind of Fruit and Nature of Package.	Results of Analysis. Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
F. X. W. E. BELAND, INSPECTOR.									
Primrose	Currants, in cardboard carton.	16	Genuine.	Good, and good size.	Sound	Clean.		37050	Satisfactory.
Heart of California.	Raisins, in cardboard carton.	16	"	"	"	"		37051	"
Narcissus.	Currants, in cardboard carton.	16	"	"	"	"		37052	"
Aztec	Raisins, in cardboard carton.	15·5	"	Good, and med. size.	"	"		37053	"
Griffin.	"	16	"	Good, and good size.	"	"		37054	"
Fairy.	Currants, in cardboard carton.	15	"	Good, and large size.	"	"		37055	"
	Apples, in bulk.	9	"	Good, and good size.	"	"		37056	"
	"	8	"	"	"	"		37057	"
Blue Bell.	Raisins, in cardboard carton.	12	"	"	"	"		37058	12 oz. net. Otherwise satisfactory.
"	Currants, in cardboard carton.	11	"	"	"	"		37059	11 oz. net. Otherwise satisfactory.
ALPHONSE PELLETIER, INSPECTOR.									
	Prunes, in cardboard carton.	12	Genuine.	Good, and small size.	Sound	Clean.		53325	12 oz. net. Otherwise satisfactory.
	Prunes, in bulk.	16	"	Good, and med. size.	"	"		53329	Satisfactory.
	Figs, in wooden box.	10	"	Good, good size and soft.	"	"		53330	"
	Prunes, in bulk.	16	"	Dried, and large size.	"	Dirty.		53333	Doubtful.
	"	16	"	Dried, and small size.	"	Clean		53334	Satisfactory.
	Figs, in wooden box.	9	"	Good, good size and soft.	"	"		53343	"
	Prunes, in bulk.	15	"	Good, and large size.	"	"		53345	"
	Figs, in bulk.	15	"	Good, and good size.	"	"		53352	"
	"	16	"	"	"	"		53359	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.
						DISTRICT OF THREE RIVERS		
1913.								
June 20	Raisins...	58917	C. Barrette, Joliette	3 lbs.	30		Hudon Hebert. Montreal.	....
" 20	Apples...	58918	"	3 "	36	West End Evap. Co., Brighton, Ont.	.....	
" 20	Prunes....	58919	"	3 "	36	J. K. Armsby, San Jose, Cal.	Hudon Hebert, Montreal.	... .
" 25	Figs	58935	O. Carignan, fils, Three Rivers.	3 pkgs	45	....	L. Chaput fils, Montreal.	.. ..
" 30	Apple preserve.	58937	Ernest Lacerte, Yamachiche.	3 bxs.	27	Dom. Canners, Montreal.	Hudon Hebert, Montreal.	"Gazelle" Brand
" 30	Figs	58938	Isaac Giguère, Louisville.	3 pkgs	24	....	L. Chaput fils, Montreal	....
" 30	Raisins...	58939	" "	3 "	54	.....	"	"King Edward" Brand.
" 30	Apples ...	58940	" "	3 "	30	.....	Hudon Hebert, Montreal.	....
July 8	Dried Fruit.	58989	Louis Pauze, L'Assomption.	3 lbs.	15	.....	L. Chaput fils. Montreal.	....
" 8	Currants .	58990	W. H. Lacasse, L'Assomption.	3 bxs.	25	.....	"	.....
						DISTRICT OF EASTERN TOWNSHIPS		
July 15	Figs	1601	May & Houlahan, Sherbrooke.	1½ lb.	30	.....	Mathewsons & Sons, Montreal.	....
" 15	Raisins..	1602	The Eastern Trading Co., Ayers Cliff.	3 pkgs	25	Griffin & Skelly Co., Fresno. Cal.	.....	
" 16	Plums..	1603	T. M. Bachelder & Co., Magog.	1½ lb.	18	....	G. T. Armstrong, Sherbrooke.	Box marked W. & S., New York, Rose and Laflamme. Montreal.
" 16	"	1604	S. & W. Fortier, Ltd Sherbrooke, East.	1½ "	20	Unknown . .	Unknown . .	.....
" 22	"	1605	Longmoar & McElreary, Thetford Mines.	3 pkgs	30	Rosenberg Bros. & Co., Cal.	Whitehead & Turner, Quebec.	....
" 23	Prunes....	1606	La Cie des Cultivateurs, Ltd., St. Georges Beauce.	1½ lb.	15	Cal. Fruit Canners Assoc., Hanford, Cal	J. B. Reneaud, Quebec.	....
" 24	Apples....	1607	A. M. McKenzie, Scottstown.	1½ "	15	Geo. W. Chatterson, Winklow, Ont.	G. T. Armstrong, Sherbrooke.	....

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Brand.	Kind of Fruit and Nature of Package.	Results of Analysis. Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Samples.	Remarks and Opinion of the Chief Analyst.
DR. V. P. LAVALLEE, INSPECTOR.									
	Raisins in bulk.	16·5	Genuine.	Good and large size.	Sound	Clean.		58917	Satisfactory
	Apples in bulk.	15	"	Good and good size.	"	"		58918	"
	Prunes in bulk.	15	"	Good and med. size.	"	"		58919	"
Aristocratic	Figs in paper in wooden box.	12	"	Good, good size and soft.	"	"		58935	"
	Canned apples.							58937	Collected by mistake
	Figs in paper in wooden box.	10·5	Genuine.	Good, good size and soft.	Sound	Clean.		58938	Satisfactory.
King Edward	Raisins in cardboard box.	15	"	Good and small size.	"	"		58939	"
	Apples in bulk.	15	"	Good and good size.	"	"		58940	"
	"	16	"	Dried and large.	"	"		58989	"
Primus	Currants in cardboard carton.	14	"	Good and good size.	"	"		58990	14 oz. net, otherwise satisfactory.
J. C. ROULEAU, INSPECTOR.									
	Figs in bulk.	7	Genuine.	Good and good size.			Sugar mites.	1601	Doubtful.
	Raisins in cardboard carton.	16	"	Good and med. size.	Sound		A few worms	1602	"
	Prunes in bulk.	8	"	"	"	Clean.		1603	Satisfactory.
	"	8	"	"	"	"		1604	"
	"	11	"	Good and good size.	"	"		1605	"
	"	11	"	Good and small size.	"			1606	
	Apples in bulk.	8	"	Good and good size.	"		A few worms	1607	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
DISTRICT OF EASTERN TOWNSHIPS—								
1913.								
July 28	Apples ...	1608	J. Plamondon, St. Césaire.	1½ lbs.	15	Lalar Co., Dunnville, Ont.	Hudon Hebert, Montreal.	....
" 29	Raisins...	1609	J. E. Boulais, St. Angele Rouville.	1½ "	12	W. Aiel, Denia Spain.	L. Chaput, fils & Cie., Montreal.	....
" 30	Apples ...	1610	H. Ledoux, Beloeil.	1½ "	15	Jno. Whiddon, Bayfield, Ont	.....	....
DISTRICT OF MONTREAL—								
June 24	Figs.....	58736	D. Genser, 39 Sanguinet St., Montreal.	3 pkts.	30	....	Montreal Fruit Auction Co.	....
" 26	Raisins...	58737	Isidore Gougeon, 368 Dorchester St, West, Montreal. .	3 "	45	J. K. Armsby Co., California.	.....	....
" 26	Currants .	58738	"	3 "	30	....		"Uno" Brand..
" 26	Raisins...	58739	R. Walsh. 376 Dorchester St. West, Montreal.	3 "	45	.. .. ..	Hudon Hebert. Montreal.	....
July 2	" ...	58740	H. Montpetit Ste. Anne de Bellevue.	3 "	39	....	Hudon & Orsali, Montreal.	....
" 2	Currants .	58741	J. Daoust & Cie. .. Ste. Anne de Bellevue.	3 "	30	... ...	Bergeron, Whissell & Co., Montreal.	... ...
" 9	Figs.. ...	58742	W. J. Leduc, 2222 Notre Dame St. West, Montreal.	3 lbs.	60	.. ..	W. Gilbert Frere, Montreal.	.....
" 10	" .	58743	F. X. Rouleau, 1839 St. James St. West, Montreal.	3 "	36	.....	Bergeron, Whissell & Co., Montreal.	.....
" 10	Prunes..	58744	Victor Leveille, 2044 St. James St. West, Montreal.	3 "	30	.....	Hudon Hebert & Co., Montreal.	... ...
" 25	Currants..	58745	G. Pilon, St. Zotique.	3 pkts.	30	.....	L. Chaput & Fils, Montreal.	.....

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Brand.	Kind of Fruit and Nature of Package.	Result of Analysis. Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
	Apples in bulk.	6·5	Genuine.	Good and good size.	Sound	Clean.	.....	1608	Satisfactory.
.....	Raisins in bulk.	10	"	Dried and good size.	"	"	.....	1609	"
..	Apples in bulk.	7·5	"	" .	"	.....	A few worms	1610	Doubtful.

D. J. KEARNEY, INSPECTOR.

.. ..	Figs in bulk.	15	Genuine.	Good and good size.	Sound	Clean.		58736	Satisfactory
Sunkist ..	Raisins, in cardboard carton.	15	"	Good and large size.	"	"	.	58737	"
Juno	Currants "	16	"	"	"	"	..	58738	"
Sultana.	Raisins "	16	"	Good and small size.	"	"	.....	58739	"
Oro	"	15 5	"	Good and good size.	"	"	.....	58740	"
Vulcan.	Currants, in cardboard carton.	14	"	.	"	"	.....	58741	14 oz. net, otherwise satisfactory.
.....	Figs, in bulk	16	"	..	...	.....	A few worms and flies.	58742	Doubtful.
.. .	"	15	"	Poor, fair size.	....	Dirty.	Wormy.	58743	Adulterated.
....	Prunes, in bulk.	16	"	Good, small size.	.....	"	Slightly wormy.	58744	"
Primus. ...	Currants, in cardboard carton.	14	"	Good and large size.	Sound	Clean.	....	58745	14 oz. net, otherwise satisfactory

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.
DISTRICT OF VALLEYFIELD								
1913.								
July 2	Raisins	58001	T. Dallaire, Lachute, P.Q.	3 pkgs	30			
" 2	Currants	58002	A. C. Bradford, Lachute, P.Q.	3 "	38			Nymph Brand
" 2	Dates	58003	J. D. Campbell, Lachute, P.Q.	3 "	39			Anchor "
" 2	Raisins	58004	Pariseau Bros., Brownsburgh, P.Q.	3 "	39			Pansy "
" 4	Prunes	58005	Arthur Bissett, Farnham, P.Q.	3 lbs.	30			
" 4	Currants	58006	R. Bernard, Farnham, P.Q.	3 pkgs	36			
" 4	Raisins	58007	J. E. Baillargeon, Farnham, P.Q.	3 "	25			Eagle Brand
" 4	Currants	58008	"	3 "	30			Primus "
" 10	Raisins	58009	P. J. Roy, St. Johns, P.Q.	3 "	36			
" 10	Figs	58010	E. Leblanc, St. Johns, P.Q.	3 lbs.	30			
DISTRICT OF OTTAWA								
June 28	Dates	59126	The MacKay Bros., Ltd., Renfrew, Ont.	3 pkgs	30	The Hills Bros. Co., New York.	Robertson Nicolle, Kingston.	Royal Excelsior Brand.
" 28	Raisins	59127	Michael Vice, Renfrew, Ont.	3 "	25	Griffin Skelley Co., California.	Craig & Co., Kingston.	Silver Bar Brand
" 28	Currants	59128	"	3 "	30	Unknown	Unknown	Wapiti Brand.
" 30	Raisins	59129	H. A. Coolidge, Smith's Falls, Ont.	3 "	30	Chaddock & Son, Fresno, California	"	
July 2	Dates	59130	W. G. Becksted, Morrisburg, Ont.	3 "	30	The Hills Bros. Co., New York.	Forbes, Bros.	Anchor Brand
" 2	Raisins	59131	"	3 "	38	Guggenhime & Co., California.	Laporte Martin, Montreal.	Daphne Brand
" 3	Currants	59132	J. Y. Patrick, Westboro, Ont.	3 "	30	Hills Bros. Co., New York.	Castle & Co., Ottawa.	

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Results of Analysis.

Brand.	Kind of Fruit and Nature of Package.	Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinions of the Chief Analyst.
J. J. COSTIGAN, ACTING INSPECTOR.									
.....	Raisins, in cardboard carton.	15·5	Genuine.	Very damp, good size.	Sound	Clean.	.....	58001	Satisfactory.
Nymph.	Currants, in cardboard carton.	15	"	Good and good size.	"	"	.....	58002	"
Anchor ...	Dates, in cardboard carton.	13	"	Good and good size and soft.	"	"	.....	58003	13 oz. net, otherwise satisfactory.
Pansy. ...	Raisins, in cardboard carton.	16	"	Good and large size.	"	"	.....	58004	Satisfactory.
.....	Prunes, in bulk.	16	"	Good and med. size.	"	"	.....	58005	"
Signal. ...	Currants, in cardboard carton.	15·5	"	"	"	"	.....	58006	"
Eagle	Raisins, in cardboard carton.	16	"	Good and good size.	"	"	.....	58007	"
.....	Currants, in cardboard carton.	14	"	"	"	"	.....	58008	14 oz. net, otherwise satisfactory.
...	Raisins, in cardboard carton.	15	"	"	"	"	.....	58009	Satisfactory.
	Figs, in bulk	14	"	Poor and good size.	"	"	.....	58010	Doubtful.
J. A. RICKEY, INSPECTOR.									
Royal Excelsior.	Dates, in card board carton.	13·5	Genuine.	Good, large size, and soft.	Sound	Clean.	...	59126	13·5 oz. net, otherwise satisfactory.
Silver Bar.	Raisins, in card board carton.	15	"	Good, and good size.	"	"	.....	59127	Satisfactory.
Wapiti	Currants, in card board carton.	16	"	Good, and large size.	"	"	.....	59128	"
Corona	Raisins, in card board carton.	13	"	Good, and good size.	"	"	.....	59129	13 oz. net, otherwise satisfactory.
Anchor	Dates, in card board carton.	12·5	"	Good, good size, and soft.	"	"	.....	59130	12·5 oz. net, otherwise satisfactory.
Daphne.....	Raisins, in card board carton.	15·5	"	Good, and good size.	"	"	.....	59131	Satisfactory
Royal Excelsior.	Currants, in card board carton.	15	"	Good, and large size.	"	"	.....	59132	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
DISTRICT OF OTTAWA—								
1913.								
July 3	Figs	59133	W. S. Allan, Westboro, Ont.	3 lbs.	25		Provost & Allard, Ottawa	
" 3	"	59134	Graham & Acres, Westboro, Ont.	3 "	24		"	
" 4	Dates	59135	H. Richardson, Ottawa.	3 pkgs	30	Wm. Hills, Jr., New York.	Castle & Co. Ottawa.	Buffalo Brand
DISTRICT OF KINGSTON—								
June 23	Raisins	57309	A. Glover, Kingston.	3 pkgs	39	Griffin & Skelley, Fresno, Cal.		
" 23	Figs	57310	J. E. Purdy, Kingston.	3 lbs.	45		Geo. Robertson & Co., Kingston.	
" 23	Raisins	57311	P. A. Haffner, Kingston.	3 pkgs	30	Griffin & Skelley, Fresno, Cal.		
" 23	"	57312	J. Cullen, Kingston	3 "	45	Chaddock Co., Fresno, Cal.		
" 23	"	57313	C. H. Pickering, Kingston.	3 "	36	"		
" 23	Prunes	57314	J. Kelley Co., Kingston.	3 lbs.	45		Fenwick Hendry Co., Kingston.	
" 25	Raisins	57315	W. H. Lanning, Belleville.	3 pkgs	30	Phœnix Packing Co., Fresno, Cal.		
" 25	"	57316	J. H. P. Young, Belleville.	3 "	30	Giffin Hobbs Co., Fresno, Cal.		
" 25	"	57317	T. R. Harvey & Son, Coburg.	3 "	38	Arnsey Co.		
" 25	"	57318	Estate H. Crozier, Coburg.	3 "	38	Griffin Skelley		
DISTRICT OF TORONTO—								
June 23	Apricots	57435	S. J. Bailey, Collingwood, Ont.	3 lbs.	53		H. P. Eckerdt & Co., Toronto.	Sample from box labelled California Fruit Canners Association.
" 24	Figs	57436	Wisdom & Co., Ltd., Allendale, Ont.	3 "	21		Unknown.	
" 24	"	57437	J. H. Wilson & Son, Orillia, Ont.	3 "	30		F. H. Haywood, Orillia.	

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Concluded.

Brand.	Kind of Fruit and Nature of Package.	Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Results of Analysis.									
.....	Figs, in bulk	16	Genuine.	Good, and good size.	....	Dirty.	Worm.	59133	Adulterated.
....	" ..	13	"	" .	Sound	Clean.	.. ..	59134	Satisfactory.
Buffalo	Dates, in card board carton.	14	"	Good, good size, and soft.	"	"	. . .	59135	14 oz. net, otherwise satisfactory.

JAS. HOGAN, INSPECTOR.

Gold Bar... ...	Raisins, in card board carton.	16	Genuine.	Good, and good size.	Sound	Clean.	..	57309	Satisfactory.
... .	Figs, in bulk	12	"	"	"	"	.	57310	"
Easter	Raisins, in card board carton.	15 5	"	" ..	"	"		57311	"
Corona	" .	15	"	" .	"	"	.	57312	"
"	" ..	15		"	"	"	.....	57313	"
. ...	Prunes, in bulk.	14	"	Good, and large size.	"	"	.	57314	"
Tulip	Raisins, in card board carton.	16	"	Good, and med. size.	"	"	....	57315	"
Red and Gold. .	" ..	16	"	Good, and good size.	"	"	.	57316	"
Sunkist	" ..	15	"	Good, and large size.	"	"		57317	"
Griffin..	" ..	15	"	" ..	"	"	..	57318	"

H. J. DAGER, INSPECTOR.

... .	Apricots, in bulk.	17	Genuine.	Good and good size.	Sound	Clean.	..	57435	Satisfactory.
. ...	Figs, in bulk.	15 5	"	Poor and good size.	.. ..	Dirty.	Worm.	57436	Adulterated.
... .	"	19	"	Good and good size.	.....	.. .	"	57437	Doubtful.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
DISTRICT OF TORONTO								
1913.								
June 25	Apples	57438	A. Rayner, Barrie, Ont.	3 lbs.	30	G. W. Chatterson, Wicklow.		
" 26	Currants	57439	D. Simpson & Co., Pickering, Ont.	3 "	30		Davidson Hay Co., Ltd., Toronto.	
" 27	Figs	57440	W. B. Pringle & Co., Whitby, Ont	2¾ "	13		Grocers Ltd., Toronto.	
" 27	Peaches	57441	S. F. Coulin, Oshawa, Ont.	3 "	38		Unknown	
July 3	Apples	57442	A. Thompson, 157 King St. East, Toronto.	3 "	24		Farmer	
" 7	Figs	57443	C. J. Carrall, 317 Parliament St., Toronto.	3 "	21		Unknown.	
" 8	Apricots	57444	J. F. Cryderman, 763 Queen St. East, Toronto.	3 "	45		"	
DISTRICT OF HAMILTON								
July 11	Prunes	58816	C. Smith, 661 Barton Street. East, Hamilton	3 lbs.	39	The J. K. Armsby Co.		
" 11	Dates	58817	F. G. Morris, 731 Barton St. East, Hamilton.	3 pks.	30	The Hills Bros. Co., New York.		
11	Figs	58818	J. Venator, 797 Barton St. East, Hamilton.	3 "	30		Vendor	
11	Prunes	58819	Mrs. C. Sanerman, 821 Barton Street East, Hamilton.	3 lbs.	38	Calf. Fruit Pack's Asso. San Francisco, Calf.		
" 15	Apricots	58820	J. Turnbull, 497 York St., Hamilton.	3 "	45	J. K. Armsby Co., Fresno, Calf.		
" 15	Dates	58821	M. L. McBeath, 235 York Street, Hamilton.	3 "	30	The Hills Bros. Co., New York.		
Aug. 20	Apricots	58822	James E. Eddie, 3 Front St., Thorold.	3 "	31	Unknown		
" 25	Figs	58824	George Williams, Guelph.	1½ "	30	"		

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Concluded.

Brand.	Kind of Fruit and Nature of Package.	Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Apples, in bulk.	16·5	Genuine.	Good and good size.	Sound	Clean.	.....	57438	Satisfactory.
	Currants in bulk.	17	"	"	"	"	...	57439	"
	Figs, in bulk	10	"	Small size.	Decayed.	Dirty.	Wormy.	57440	Adulterated.
	Peaches, in bulk.	16	"	Good and large size.	Sound	Clean	.....	57441	Satisfactory
	Apples, in bulk.	15	"	Poor and good size.	Decayed.	Dirty.	Wormy.	57442	Adulterated.
	Figs, in bulk	18	"	"	...	"	"	57443	"
	Apricots, in bulk.	15·5	"	"	.....	"	"	57444	"

D. M. CAMERON, INSPECTOR.

	Prunes, in bulk.	15	Genuine.	Poor and small size.	Decayed.	Dirty.	Wormy.	58816	Adulterated.
	Dates, in cardboard carton.	14	"	Good, large size and soft.	Sound	Clean.	..	58817	14 ozs. net, otherwise satisfactory.
	Figs, in cardboard carton.	8·5	"	"	"	"	...	58818	Satisfactory.
	Prunes, in cardboard carton.	16	"	Good, med. size.	...	Dirty.	Wormy.	58819	Adulterated.
	Apricots, in in bulk.	16	"	Good and good size	.....	.....	A few worms.	58820	Doubtful.
	Dates, in cardboard carton.	14·5	"	Fair, large size and soft.	A few decayed.	Generally clean.	....	58821	14.5 ozs. net. Doubtful.
	Apricots, in bulk.	15·5	"	Good and good size.	Sound	Clean.	.....	58822	Satisfactory.
	Figs, in bulk	8	"	"	"	"	...	58824	"

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quant.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
						DISTRICT OF WINDSOR—		
1913.								
July 7	Packaged Fruit.	54853	E. R. Snook, Chatham.	3 pkgs	35	Califor. Fruit Canners' Assn.		"Rose Brand"
" 7	"	54855	Harry A. Andrew, Chatham.	1½ lbs.	19		A. M. Smith & Co., London, Ont.	
" 7	Dates	54856	Geo. A. Young, Chatham.	3 pkgs	30		Geo. Watt, Brantford.	"Dromedary Brand."
" 7	Packaged Fruit.	54858	M. E. Wilson, Chatham.	3 lbs	38		McPherson, Glascow & Co., Hamilton.	
" 7	"	54859	Geo. Taylor, Chatham.	3 "	30		Unknown.	
" 8	Raisins	54861	G. Adam, Windsor.	3 pkgs	37		J. F. Smyth, Windsor, Ont.	"Red Feather Brand."
" 8	Packaged Fruit.	54864	N. Barker, Windsor.	3 lbs.	38		"	
" 8	"	54866	Jno. H. Luxford, Walkerville.	3 "	30		"	
" 9	Raisins	54871	R. T. Moran, Leamington.	3 pkgs	38		G. Watt & Sons, Brantford.	"Purple and Gold" Brand.
" 9	Packaged Fruit.	54872	C. B. Ellis, Leamington.	3 "	30		Unknown.	Quail Brand.
						DISTRICT OF MANITOBA—		
June 26	Raisins	48921	F. Fawley, 436 Notre Dame, Winnipeg.	3 pkgs	30	Malaca Packing Co., Malaca, Cal.		"Golden Ophir" Brand.
" 26	"	48922	John Dyke, William Ave., Winnipeg.	3 "	40	Eby Blain, Ltd., Toronto.		"Anchor" Brand
" 26	"	48923	"	3 "	30	Rosenberg Bros. Co., San Francisco, Cal.		"Guardian" Brand.
" 27	Prunes	48924	W. J. Robinson, Portage Ave., Winnipeg.	3 lbs.	30		A. Macdonald & Co., Winnipeg.	
" 27	"	48925	Heaney Bros., Portage Ave., Winnipeg.	3 "	25			
" 27	Figs	48926	"	3 "	25			
July 3	Prunes	48927	O. Hughes, Pembina Ave., Winnipeg.	3 "	30	J. K. Armsby. San Jose, Cal.		
" 3	"	48928	Bain's Grocery, Pembina Ave., Winnipeg.	3 "	30	Unknown.		

SESSIONAL PAPER No. 14

DRIED AND PACKED FRUIT.

Results of Analysis.

Brand.	Kind of Fruit and Nature of Package.	Net weight of contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
JNO. TALBOT, INSPECTOR.									
Rose.....	Raisins in card board carton.	16	Genuine.	Good and good size.	Sound	Clean.	..	54853	Satisfactory.
... .	Prunes in bulk.	8	"	Good and small size.	"	Dirty.	..	54855	Doubtful.
Dromedary. ...	Dates in card board carton.	14	"	Good, good size and soft.	"	Clean.	..	54856	14 ozs. net. Otherwise satisfactory.
... .	Prunes in bulk	16	"	Large size. ..		Dirty.		54858	Doubtful.
.....	Currants in bulk.	16	"	Good, and good size.	Sound	Clean.	..	54859	Satisfactory.
Red Feather....	Raisins in card board carton.	15·5	"	" ..	"	"	..	54861	"
....	Prunes in bulk.	15	"	Good, and small size.	....	.....	A few worms.	54864	Doubtful.
....	Currants in bulk.	15·5	"	Good, and good size.	Sound	Clean.	..	54866	Satisfactory.
Purple and Gold.	Raisins in card board carton.	15	"	Good, and small size.	"	"	..	54871	"
Quail.....	" ..	16	"	Good size...	"	"	..	54872	"
A. C. LARIVIÈRE, INSPECTOR.									
Gold of Ophir ..	Raisins in card board carton.	15 5	Genuine.	Good, and good size.	Sound	Clean.	..	48921	Satisfactory.
Anchor.....	" ..	15·5	"	Good, and large size	"	"	..	48922	"
Guardian..... ..	" ...	14	"	" ..	"	"	.....	48923	14 ozs. net. Otherwise satisfactory.
....	Prunes in bulk.	18	"	"	"	"	..	48924	Satisfactory.
.....	" .	12	"	" ..		Dirty.	Wormy.	48925	Adulterated.
....	Figs in bulk.	13	"	"	...	...	"	48926	Doubtful.
... .	Prunes in bulk	16	"	" .	Sound	.....	.	48927	.
....	" ..	15	"	Good, and small size.		Dirty.	A few worms.	48928	.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
						DISTRICT OF MANITOBA—		
1913.								
July 14	Prunes..	48929	T. A. Newman & Bros., Portage La Prairie.	3 lbs..	30	.....	Campbell Bros. & Wilson, Winnipeg.	.....
" 15	" ...	48930	Ed. Bolton, Brandon.	3 "	30	.....	The Codville Co., Brandon.	.....
						DISTRICT OF ROCKY MOUNTAINS—		
July 2	Figs.....	49901	L. C. Masson, Revelstoke, B.C.	3 lbs..	45	Kelly, Douglas & Co., Vancouver, B.C.	.....	.....
" 2	Raisins...	49902	"	3 pkgs	45	"	.....	.....
" 2	Currants..	49903	"	"	45	"	.....	.....
" 2	Prunes ..	49904	"	3 lbs..	45	W. H. Malkins & Co., Vancouver, B.C.	.....	.....
" 2	Apricots..	49905	"	3 "	60	"	.....	.....
" 2	Peaches...	49906	"	3 "	45	"	.....	.....
" 2	Pears..	49907	"	3 "	45	"	.....	.....
" 2	Apples....	49908	"	3 "	45	"	.....	.....
" 16	Figs.....	49926	Union Co op. Ass'n Rossland, B.C.	3 pkg	50	Rosenberg Bros. & Co., San Francisco.	.....	.....
" 16	Prunes..	49927	"	3 lbs..	40	North Ontario Packing Co., California.	.....	.....
						DISTRICT OF VANCOUVER—		
Aug. 12	Raisins.	54926	McTaggart's grocery, Granville St., Vancouver, B.C.	3 pkgs	40	.....	Mowat & Co., Fresno. Cal.	.....
" 12	"	54927	McKenzie's grocery, 711 Robson St., Vancouver, B.C.	3 "	25	.....	Kelly, Douglas & Co., Vancouver, B.C.	"Nabob" Brand.
" 12	" ...	54928	A. & C grocery, 909 Georgia St., Vancouver, B.C.	3 "	40	.....	"	"Columbia" Brand, choice bleached Sultana.
" 12	" ...	54929	Turner's grocery, Hornby and Pender Sts., Vancouver, B C.	3 "	40	.....	Am. Vineyard Co, Fresno, Cal.	"Not-a-Seed" Brand, Sun Cured.

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Brand.	Kind of Fruit and Nature of Package.	Net weight of Contents in ounces.	Specific Identity.	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Samples.	Remarks and Opinions of the Chief Analyst.
Concluded.									
	Prunes in bulk.	16	Genuine.	Good, med. size.	Sound	Dirty.	A few worms.	48929	Doubtful.
	"	16	"	Good, small size.	"	Clean.		48930	Satisfactory.
THOS. PARKER, INSPECTOR.									
	Figs in bulk.	16	Genuine.	Good and good size.	Sound		A few worms	49901	Doubtful.
Columbia	Raisins in cardboard carton.	14	"	"	"	Clean.		49902	14 oz. net, otherwise satisfactory.
"	Currants in cardboard carton.	16	"	Good and large size.	"	"		49903	Satisfactory.
	Prunes in bulk.	16	"	"	"	"		49904	"
	Apricots in bulk.	15	"	Good and good size.	"	"		49905	"
	Peaches in bulk.	15	"	Good and large size.	"	"		49906	"
	Pears in bulk	16	"	"	Decayed.	Dirty.	Flies and worms	49907	Adulterated.
	Apples "	16	"	Good and good size.	Sound	Clean.		49908	Satisfactory.
Lily	Figs in tissue paper.	12·5	"	"	"	"		49926	"
	Prunes in bulk.	16	"	Good med. size.	"	"		49927	"
J. F. POWER, INSPECTOR.									
	Raisins in cardboard carton.	16	Genuine.	Good and large size.	Sound	Clean.		54926	Satisfactory.
	"	11·5	"	"	"	"		54927	11·5 oz. net, otherwise satisfactory.
	"	15	"	Good and small size.	"	"		54928	Satisfactory
Ideal	"	16	"	"	"	"		54929	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF VANCOUVER		
1913.								
Aug. 13	Raisins	54930	E. Bailey, 537 Howe St., Vancouver, B.C.	3 pkgs	25		W. H. Malkin & Co., Vancouver, B.C.	"Victoria Cross" Brand.
" 13	"	54931	J. R. Gosling, 942 Pender St., Vancouver, B.C.	3 "	25		Chaddock & Co., Fresno, Cal.	"Blue Jay" Brand.
" 13	"	54932	D. McGregor, Pender and Bute Sts., Vancouver, B.C.	3 "	40		Calif. Fruit Canners' Association, Fresno, Cal.	"Del Monte" Brand.
" 14	"	54933	T. Russell, 444 Pender St., Vancouver, B.C.	3 "	30		Guggenheim & Co., California, U.S.A.	"Quaker" Brand
" 14	"	54934	H. A. Edgett & Co., Vancouver, B.C.	3 "	25		"	"Ramona" "
" 15	"	54935	Gruchy & Carlow, 5th Avenue and Granville Street, Vancouver, B.C.	3 "	25		Wilson Bros., Victoria, B.C.	"Daisy" "
						DISTRICT OF VICTORIA		
July 9	Prunes	53587	Windsor Grocery Co., 817 Govt. St., Victoria, B.C.	3 lbs.	35		S. Leiser & Co., Victoria, B.C.	
" 9	Dates	53588	"	3 pkgs	15	The Hills Bros. Co., New York.		"Royal Excelsior" Brand.
" 9	Prunes	53591	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	3 lbs.	25		Wilson Bros., Victoria, B.C.	
" 9	Figs	53593	Pulice & Pulice, 729 Pandora Ave., Victoria, B.C.	3 pkgs	25		Patterson Bros., Victoria, B.C.	"Khedive" brand
9	Raisins	53594	"	3 "	30		R. P. Rithet & Co., Victoria, B.C.	"Gold Ribbon" Brand.
9	Figs	53595	"	3 "	30		Patterson Bros., Victoria, B.C.	
9	Currants	53596	R. Erskine & Co., 861 Johnston St., Victoria, B.C.	3 "	40		R. P. Rithet & Co., Victoria, B.C.	"Narcissus" Brand.
15	Raisins	53599	Henry W. Driver, 856 Yates St., Victoria, B.C.	3 "	30	The J. K. Armsby Co., Fresno, Calif.		"Elk" Brand.
" 15	Currants	57601	F. E. Plummer, 1118 Quadra St., Victoria, B.C.	3 lbs.	30		R. P. Rithet & Co., Victoria, B.C.	
18	Dates	57610	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	3 pkgs	45	The Hills Bros. Co., New York.		"Dromedary" Brand.

SESSIONAL PAPER No. 14

DRIED AND PACKAGED FRUIT.

Brand.	Kind of Fruit and Nature of Package.	Net weight of Contents in ounces.	Specific Identity	Quality and Size of Fruit.	Soundness or Decay.	Cleanliness.	Nature of foreign matter, if any.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Results of Analysis.							
Concluded.									
Victoria Cross..	Raisins in cardboard carton.	16	Genuine.	Good and large size.	Sound	Clean.	....	54930	Satisfactory.
Blue Jay..	"	10	"	"	"	"	....	54931	10 oz. net, otherwise satisfactory.
Del Monte.....	"	16	"	Good and small size.	"	"	....	54932	Satisfactory.
Quaker	"	16	"	Good and large size.	"	"	....	54933	"
Ramona	"	12	"	"	"	"	....	54934	12 oz. net, otherwise satisfactory.
Daisy	"	16·5	"	"	"	"	.....	54935	Satisfactory.
D. O'SULLIVAN, INSPECTOR.									
....	Prunes in bulk.	13	Genuine.	Good and med. size.	Sound	Clean.	....	53587	Satisfactory.
Royal Excelsior.	Dates in cardboard carton.	14	"	Good large size and soft.	"	"	....	53588	14 oz. net, otherwise satisfactory.
....	Prunes in bulk.	16	"	Good and med. size.	....	Dirty, worms		53591	Adulterated.
Khedive	Figs in paper.	14	"	Good and good size.	Sound	Clean.	.....	53593	Satisfactory.
... .	Raisins in cardboard carton.	16 5	"	"	"	"	.....	53594	"
Black Figs.....	Figs in small pasteboard box.	9	"	"	"	"	.....	53595	"
Narcissus..	Currants in cardboard carton.	15	"	"	"	"	....	53596	"
Elk	Raisins in cardboard carton.	16	"	"	"	"	..	53599	"
....	Currants in bulk.	12	"	"	"	"	....	57601	"
Dromedary.	Dates in cardboard carton.	12	"	"	"	"	....	57610	12 oz. net, otherwise satisfactory.

APPENDIX M.

BULLETIN No. 270—TALLE SALT.

OTTAWA, November 10, 1913.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report upon 139 samples of table salt, collected by our inspectors during January and February of this year.

None of the samples can be regarded as in any way objectionable, still less as harmful, for the purposes of table salt.

At the same time, they vary in quality through a considerable range, as regards their freedom from other substances than chloride of sodium, which may be regarded as the essential and characteristic constituent of salt.

I think it not unreasonable to require that a purified salt, for table use, should be practically free from other chlorides than sodium chloride; and should contain sulphates in amount less than corresponding to 0·75 per cent of sulphuric acid (SO_3).

The only sulphate usually present in salt is calcium sulphate; and 0·75 per cent SO_3 corresponds to about 1·28 per cent of calcium sulphate.

On this basis, 24 samples contain somewhat higher sulphates than should be found in refined salt.

Thirty samples show excessive amounts (above 0·1 per cent) of insoluble matter. In all cases this is of harmless character; and appears to be purposely added in order to reduce the hygroscopicity of the salt, and thus to prevent caking. As I pointed out in Bulletin No. 220, the fact of such addition should be noted on the label.

Owing to press of other work, it has not yet been found possible to fix standards for this article. This will be done as soon as practicable.

I beg to recommend publication of this report as Bulletin No. 270.

I have the honour to be, sir,
Your Obedient Servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 270—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
Jan. 14	Table salt.	46661	A. L. Doyle & Co., Halifax, N.S.	3 lbs.	5	Canadian Salt Co., Windsor, Ont.	John Tobin & Co., Halifax, N.S
" 16	" ..	46662	T. J. Brown, Halifax, N.S.	3 "	5	" " ..	Morrison & Williams, Halifax, N.S.
17	" ..	46663	Wentzells Ltd., Halifax, N.S.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	Manufacturers
17	" .	46664	Wm. Moore, Halifax, N.S.	3 "	5	" " ..	" . .
" 22	" ..	46665	De Wolf & Lamont, Kentville, N.S.	3 "	5	Canadian Salt Co., Windsor, Ont.	R. B. Seeton & Co., Halifax, N.S.
22	" ..	46666	Yerxas Store, Halifax, N.S.	3 "	5	" " ..	H. W. Cole, St. John, N.B.
" 23	" ..	46667	A. F. Ross & Co., Truro, N.S.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	McColloch, Creelman & Morrison, Truro, N.S.
23	" ..	46668	H. W. Ryan & Co., Truro, N.S.	2 "	5	" " ..	" ..
" 23	" .	46669	The Truro Market, Truro, N.S.	2 "	5	" " ..	" ..
" 23	" ..	46670	B. O. Bishop, Dartmouth, N.S.	2 "	5	Canadian Salt Co., Windsor, Ont.	John Tobin & Co., Halifax, N.S.
DISTRICT OF PRINCE EDWARD ISLAND—							
Jan. 4	Table salt.	46359	Beer & Goff, Charlottetown, P.E.I.	1 lb.	2	Canadian Salt Co., Windsor, Ont.	.....
" 7	" ..	46360	Sanderson & Co., Charlottetown, P.E.I.	1 "	2	Windsor Salt Co., Windsor, Ont.	.... ..
" 8	" ..	46361	Coffin & Co., Charlottetown, P.E.I.	1 "	2	Canadian Salt Co., Windsor, Ont.	....
" 8	" ..	46362	W. W. Walker, Charlottetown, P.E.I.	1 "	2	....	J. A. Farquharson, Charlottetown, P.E.I.
" 13	" ..	46363	A. Gates & Co., Charlottetown, P.E.I.	1 "	2	Unknown	Carvell Bros., Charlottetown, P.E.I.
" 13	" ..	46364	Stewart & Son, Charlottetown, P.E.I.	1 "	2	Canadian Salt Co., Ltd., Windsor, Ont.	.. ..
" 14	" ..	46365	J. A. Hynes, Kensington, P.E.I.	1 bag.	5	" "	
" 15	" .	16366	Brace McKay & Co., Ltd., Summerside, P.E.I.	1 tin.	10	" "	
" 15	" ..	46367	Sinclair & Stewart, Summerside, P.E.I.	1 "	10	Dearborn & Son, St. John, N.B.	....
" 17	" ..	46368	L. Haszard, Charlottetown, P.E.I.	1 "	12	" "	

SESSIONAL PAPER No. 14

TABLE SALT.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Moisture.	Insoluble.	SO_3.	Lime (CaO).	Magnesia (as Chloride) $MgCl_2$.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH INSPECTOR.								
	p. c.	p. c.	p. c.	p. c.	p. c.			
"Windsor" Salt.	0·21	Trace ..	0·54	0·39	Trace ..	....	46661	
.....	0·21	" ..	0·57	0·43	" ..	....	46662	
"Shaker" Salt.	0·14	0·45	0·14	Trace ..	....	Contains 1 per cent $MgCO_3$.	46663	Insoluble matter high.
"Peerless"Brand	0·08	Trace ..	Trace ..	0·08	Trace ..	....	46664	
.....	0·12	" ..	0·63	0·43	"	....	46665	
.....	0·17	" ..	0·50	0·37	" ..	.....	46666	
.....	0·12	0·45	0·09	Trace ..	....	Contains 1 per cent $MgCO_3$.	46667	Insoluble matter high.
.....	0·11	Trace ..	0·32	0·24	Trace	.....	46668	
.....	0·06	" ..	0·21	0·17	"	.....	46669	
.....	0·19	" ..	0·83	0·57	"	.....	46670	Sulphates high.
WM. A. WEEKS, INSPECTOR.								
.....	0·19	Trace ..	0·48	0·39	Trace	.....	46359	
.....	0·19	"	0·59	0·45.	"	.....	46360	
.....	0·23	"	0·56	0·41	"	.....	46361	
.....	0·22	"	0·53	0·29	"	.....	46362	
	0·15	"	0·42	0·31	"	.....	46363	
.....	0·17	"	0·65	0·49	"	Sample received in damaged condition.	46364	
	0·11	"	0·59	0·41	"	.....	46365	
.....	0·23	0·92	0·57	0·10	0·66	Residue mostly $CaCO_3$ and $CaSO_4$.	46366	Insoluble matter high.
.....	0·22	2·18	0·57	0·32	Trace	Residue is starch..	46367	"
.....	0·43	0·80	0·58	0·45	"	"	46368	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
						DISTRICT OF NEW BRUNSWICK	
1912.							
Dec. 20	Table Salt.	50535	H. S. Francis, St. John, N.B.	1 lb.	3		G. E. Barbour & Co., Ltd., St. John, N.B.
" 23	"	50536	P. Nase & Son, St. John, N.B.	1 "	5		Gandy & Allison, St. John, N.B.
1913.							
Jan. 7	"	50537	John McKnight, Fredericton, N.B.	1 bag	5	The Canadian Salt Co., Ltd., Windsor, Ont.	
" 9	"	50538	M. S. Moorehouse, Woodstock, N.B.	1 "	5	" "	
" 14	"	50539	Herman A. Myers, Norton, N.B.	1 "	5	" "	
" 15	"	50540	Mills, Eveleigh Ltd., Sussex, N.B.	1 "	5	Diamond Crystal Salt Co., St. Clair, Mich., U.S.A.	
" 15	"	50541	Sussex Mercantile Co., Ltd., Sussex, N.B.	1 "	12	The Can. Salt Co., Ltd., Windsor, Ont.	
" 16	"	50542	D. A. McKeath, Moncton, N.B.	1 "	10	Diamond Crystal Salt Co., St. Clair, Mich., U.S.A.	
" 16	"	50543	Geo. A. Robertson, Moncton, N.B.	1 lb.	3	The Canadian Salt Co., Ltd., Windsor, Ont	
" 16	"	50544	2 Barkers, Ltd., Moncton, N.B.	1 "	3		
						DISTRICT OF QUEBEC	
1912.							
Dec. 23	Table Salt.	37118	Elzear Gagnon, 135 Rue Dorchester, Quebec.	1 sack.	5	Windsor, Ont.	Unknown.
" 23	"	37119	E. D. Marier, 136 Rue Dorchester, Quebec.	1 "	5	"	J. B. Renaud.
" 26	"	37120	Jos. Goslin, 50 Rue Dorchester, Quebec.	1 "	5	Royal Table Salt	Ed. Frenette, Quebec.
" 26	"	37121	Ed. Verreault, 204 Rue de la Reine, Quebec.	1 "	5	Peerless, Bristol.	Langlois & Paradis.
" 26	"	37122	A. Cloutier, 132 Rue Laliberté, Quebec.	1 "	5	"	Drouin & Frère.
" 27	"	37123	W. Hayfield, 50 Rue Ste. Marguerite, Quebec.	1 "	5	Windsor, Ont.	J. B. Renaud & Cie.
1913.							
Jan. 3	"	37124	Hamel & Bédard, 728 Rue St. Valier, Quebec.	1 "	5	"	Turcot & Frère.
" 3	"	37125	L. Desgagné, 914 Rue St. Valier, Quebec.	1 "	5	Family Dairy	Gagnon & Garent.
" 3	"	37126	Cantin et Frère, 271 Rue St. Joseph, Quebec.	1 "	5	Windsor, Ont.	Turcot & Co
" 7	"	37127	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	1 "	5		Unknown.

SESSIONAL PAPER No. 14

TABLE SALT.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Moisture.	Insoluble.	SO_3.	Lime (CaO).	Magnesia (as Chloride) $MgCl_2$.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. C. FERGUSON, INSPECTOR.								
	p. c.	p. c.	p. c.	p. c.	p. c.			
	0·13	Trace	0·65	0·42	Trace		50535	
English	0·15	"	0·94	0·58	"		50536	Sulphates high.
	0·13	"	0·56	0·36	"		50537	
	0·08	"	0·71	0·44	"		50538	
	0·38	"	0·50	0·31	"		50539	
	0·09	"	0·18	Trace	"		50540	
Regal Table Salt.	0·26	1·06	0·66	0·16	0·71	Residue is Ca SO_4 and Mg CO_3.	50541	Insoluble matter high.
"Shaker" Brand.	0·09	0·62	0·12	Trace	0·50	Residue is Ca CO_3 and Mg CO_3.	50542	"
	0·21	Trace	0·72	0·49	Trace		50543	
	0·28	"	0·89	0·61	"		50544	Sulphates high.
F. X. W. E. BELAND, INSPECTOR.								
	0·21	Trace	0·96	0·56	Nil		37118	Sulphates high.
	0·23	"	0·69	0·50	"		37119	
	0·21	"	0·64	0·50	Trace		37120	
	0·09	"	0·34	0·28	"		37121	
	0·11	"	0·24	0·19	Nil		37122	
	0·18	"	0·54	0·39	"		37123	
	0·15	"	0·60	0·49	"		37124	
	0·20	"	0·56	0·43	Trace		37125	
	0·11	"	0·57	0·37	"		37126	
	0·15	"	0·56	0·39	"		37127	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Costs. Quantity.	Costs. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF EASTERN QUEBEC—	
1912.							
Dec. 19	Table salt.	53302	F. Chouinard, St. Pamphile.	1 lb.	2	The Royal Table Salt Co., Canada.	
" 24	" ..	53305	Talbot Ltd., Rimouski..	1 "	2	Canadian Salt Co., Windsor, Ont.	
" 26	" ..	53308	J. E. Pinaau, Fraserville.	1 "	5	" "	
						DISTRICT OF EASTERN TOWNSHIPS—	
1913.							
Jan. 30	Table salt.	51156	L. Lafrance, Danville, Que.	1 bag.	10		
" 30	" ..	51157	H. Brodeur, St. Hyacinthe, Que.	1 "	5		
" 30	" ..	51158	E. Lafrance, St. Hyacinthe, Que.	1 carton.	5	Diamond Crystal Salt Co.	
" 30	" ..	51159	J. B. St. Pierre, St. Hyacinthe, Que.	2 lbs.	2		
Feb. 6	" ..	51160	J. A. Baraby, St. Jacques St., St. Johns, Que.	1 bag.	5	Canadian Salt Co., Ltd.	
6	" ..	51161	A. Dubois, St. Jacques St., St. Johns, Que.	2 lbs.	2	Unknown	
" 6	" ..	51162	P. J. Roy, St. Jacques St., St. Johns, Que.	2 "	2	"	
" 6	"	51163	" " ..	1 bag.	5	Diamond Crystal Salt Co.	
" 6	"	51164	Joseph Chartier, Market Square, St. John, Que.	2 lbs.	2	Unknown	
" 6	"	51165	W. Simpson, Grocer, St. John, Que.	1 carton.	15	Cerebos Ltd., England.	
						DISTRICT OF MONTREAL—	
Jan. 22	Table salt.	51088	A. E. Senuat, 191 Villeneuve St. E. Montreal, Que.	1 bag.	5	Canadian Salt Co.	
" 22	" ..	51089	St. Denis Grocery, 1660 St. Denis St., Montreal, Que.	1 lb.	2		
" 22	" ..	51090	S. J. Short, 1551 St. Denis St., Montreal, Que.	1 bag.	5	Canadian Salt Co.	
" 22	" ..	51091	" " ..	2 lbs.	2		
22	" ..	51092	A. S. Clement, 151 Rachel St. E., Montreal, Que.	2 "	3		
22	"	51093	R. & A. Blouin, 137 Duluth Ave. E., Montreal, Que.	2 "	3		
" 22	"	51094	M Kahner, 90 Roy St. E., Montreal, Que.	2 "	2		

SESSIONAL PAPER No. 14

TABLE SALT.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Moisture.	Insoluble.	SO_3.	Lime (CaO).	Magnesia (as Chloride) $MgCl_2$.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
A. PELLETIER, INSPECTOR.								
	p. c.	p. c.	p. c.	p. c.	p. c.			
	0·35	Trace	0·84	0·60	Trace		53302	Sulphate high.
	0·19	"	0·49	0·34	"		53305	
	0·14	"	0·62	0·48	Nil		53308	
J. J. COSTIGAN, ACTING INSPECTION.								
"Empire" Brand	0·18	Trace	0·38	0·30	Trace		51156	
"Windsor" Brand.	0·19	"	0·48	0·33	Nil.		51157	
"Shaker" Brand.	0·11	0·80	0·21	0·15	0·24	Residue is $MgCO_3$.	51158	Insoluble matter high.
	0·40	Trace	0·91	0·66	Trace		51159	Sulphates high.
Windsor Table Salt.	0·18	"	0·60	0·41	Nil.		51160	
	0·41	"	1·01	0·71	Trace		51161	Sulphates high.
	0·17	"	0·96	0·58			51162	"
	0·06	Nil.	0·15	0·11	"		51163	
	0·22	Trace	0·79	0·50	"		51164	
Prepared Cerebos Table Salt.	0·19	3·31	0·98	0·45	"	Residue is $MgCO_3$.	51165	Insoluble matter high, sulphates high.
J. J. COSTIGAN, INSPECTOR.								
	0·15	Trace	0·62	0·43	Trace		51088	
	0·28	"	0·68	0·48	"		51089	
	0·18		0·59	0·43			51090	
	0·20	"	0·57	0·43	"		51091	
	0·21		0·62	0·46	"		51092	
	0·18	"	0·88	0·55	"		51093	Sulphates high.
	0·15	"	0·85	0·58	"		51094	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF MONTREAL							
1913.							
Jan. 22	Table Salt.	51095	J. Merimer, 16 Roy St. E., Montreal.	2 lbs.	2	.....	....
" 22	" ..	51096	S. Feldman, 24 Pine Ave. E., Montreal.	2 "	2	.....	....
" 22	" ..	51097	S. L. Mathanson & Son, 18 Ontario St. E., Montreal.	2 "	2	.....	...
DISTRICT OF OTTAWA							
1912.							
Dec. 23	Table Salt.	51657	Mundle & Percival, Kemptville.	1 bag.	5	Canadian Salt Co., Windsor, Ont.	Jno. Eligh, North Rideau.
" 24	..	51658	Jno. McKinnon, Almonte.	1 "	10	" " ..	Mathewson's Sons. Montreal.
" 26	" ..	51659	W. J. Martin, Buckingham.	1 "	5	" " ..	Chaput, fils et Co., Montreal.
" 26	" ..	51660	McCallum & Lahaie, Buckingham.	1 "	5	" " ..	Verret, Stewart & Co., Montreal.
" 26	" ..	51661	P. Lamoureux & Cie, Dalhousie St., Ottawa.	1 "	5	" " ..	Provost & Allard. Ottawa.
" 30	" ..	51662	A Boivin, Queen St. west, Ottawa.	1 "	5	" " ..	Unknown .....
" 30	" ..	51663	R. Lavigne, Queen St. west, Ottawa.	1 "	5	" " ..	" .....
" 31	" ..	51664	J. C. Ray, Elgin St., Ottawa.	1 "	5	" " ..	Castle & Co., Ottawa.
" 31	" ..	51665	Crabtree & Trowbridge, Elgin St., Ottawa.	3 box's	30	The Snowflake Salt Co., New York City.	" " ..
" 31	" ..	51666	D. A. Younghusband, Elgin St., Ottawa.	1 bag.	5	Canadian Salt Co., Ltd., Windsor, Ont.	.....
DISTRICT OF KINGSTON—							
Dec. 17	Table Salt.	53026	A. Glover, Kingston....	3 lbs.	5	Windsor	.....
" 17	" ..	53027	J. Crawford, Kingston.	3 "	5	"	.....
" 17	" ..	53028	D. Coupie, Kingston..	3 "	5	"	.....
" 17	" ..	53029	Anderson Bros., Kingston.	3 "	5	"	.....
" 18	" ..	53030	Wm. J. Patterson, Belleville.	3 "	5	Canadian Salt Co., Windsor.	.....
" 18	" ..	53031	F. Rosevear, Port Hope.	3 "	5	" " ..	.....
" 19	" ..	53032	H. Bradshaw, Peterboro'.	3 "	5	" " ..	.....
" 19	" ..	53033	J. E. Lillico, Peterboro.	3 "	5	" " ..	.....
" 19	" ..	53034	J. H. Heal, Peterboro.	3 "	5	" " ..	.....
" 19	" ..	53035	W. J. Roulty, Peterboro.	3 "	5	" " ..	.....

SESSIONAL PAPER No. 14

TABLE SALT.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Moisture.	Insoluble.	SO_3.	Lime (CaO).	Magnesia (as Chloride) $MgCl_2$.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.								
	p. c.	p. c.	p. c.	p. c.	p. c.			
	0·17	Trace ..	1·06	0·70	Trace ..		51095	Sulphates high.
	0·22	" ..	0·83	0·60	" ..		51096	"
	0·22	" ..	0·82	0·58	" ..		51097	"
J. A. RICKEY, INSPECTOR.								
	0·23	Trace ..	0·58	0·44	Trace ..		51657	
	0·15	" ..	0·66	0·47	Nil.. ..		51658	
	0·19	" ..	0·65	0·48	" ..		51659	
	0·16	" ..	0·58	0·44	Trace ..		51660	
	0·22	" ..	0·50	0·38	Nil.. ..		51661	
	0·15	" ..	0·45	0·34	" ..		51662	
	0·19	" ..	0·61	0·46	Trace ..		51663	
	0·20	" ..	0·67	0·56	" ..		51664	
	0·34	0·60	0·65	0·36	0·38	Residue is $MgCO_3$.	51665	Insoluble matter high.
	0·20	Trace ..	0·62	0·47	Nil.. ..		51666	
JAS. HOGAN, INSPECTOR.								
	0·25	Trace ..	0·76	0·68	Nil.. ..		53026	
	0·12	" ..	0·52	0·37	Trace ..		53027	
	0·16	" ..	0·46	0·33	Nil		53028	
	0·18	" ..	0·56	0·43	"		53029	
	0·15	" ..	0·40	0·34	Trace ..		53030	
	0·14	" ..	0·76	0·53	" ..		53031	
	0·19	" ..	0·57	0·44	" ..		53032	
	0·18	" ..	0·89	0·82	" ..		53033	Sulphates high.
	0·22	" ..	0·64	0·54	Nil. ..		53034	
	0·17	" ..	0·52	0·39	Trace ..		53035	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.		Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
							DISTRICT OF TORONTO—	
1912.								
Dec. 26	Table salt.	51521	Warren Bros. & Co., 87 Front St. West, Toronto.	1	lb.	5	The Carey Salt Co., Hutchison, Kan.	
" 26	"	51522	The Davidson & Hay, Ltd., 36 Young St., Toronto, Ont.	1	"	10	The Solphosa Salt Co., Ltd., London, N.	
" 26	"	51523	H. P. Eckardt & Co., 19 Front St. West, Toronto.	2½	"	5	Diamond Crystal Salt Co., St. Clair, Mich.	
" 26	"	51524	J. M. Evans & Co., 1743 Dundas St. West, Toronto.	1	"	5		Unknown
1913.								
Jan. 7	"	51525	T. Kinnear & Co., 49 Front St. East, Toronto.	2	"	3		Canadian Salt Co., Ltd., Windsor.
" 7	"	51526	Eby Blain Ltd., 21-23 Front St. East, Toronto.	2	"	10	Packaged by vendors	
" 7	"	51527	Canada Brokerage Co. Ltd., 9 Front St. East, Toronto.	2	"	Nil.	The Dom. Salt Co., Ltd., Sarnia.	
" 7	"	51528	Toronto Salt Works, 128 Adelaide St. East, Toronto.	2	"	5	Packaged by vendors	
" 7	"	51529	Swan Bros., 162 King St. East, Toronto.	2	"	10		Toronto Salt Works Toronto.
" 7	"	51530	James Lumbers Co., Ltd., 67 Front St. East, Toronto.	2	"	8	Western Salt Co., Ltd., Mooretown, Ont.	
							DISTRICT OF WINDSOR—	
Jan. 2	Table salt.	47904	Wm. Cross, Strathroy.	1	bag	10	Dominion Salt Co., Sarnia.	
" 3	"	47910	E. J. Coles Co., Woodstock, Ont.	1	"	5	" "	
" 3	"	47911	White & Co., Woodstock, Ont.	1	"	5	" "	
" 6	"	47911	Ideal Co-op. Asso. Co., St. Thomas.	1	lb.	5	Canadian Salt Co., Windsor.	
" 6	"	47915	G. M. Charlton, St. Thomas.	1	pkge	5	" "	
" 6	"	47916	A. Dingman, St. Thomas.	1	"	5	" "	
" 6	"	47917	D. H. McIntyre, St. Thomas.	1	"	5	" "	

SESSIONAL PAPER No. 14

TABLE SALT.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Moisture.	Insoluble.	SO_3.	Lime (CaO).	Magnesia (as Chloride) $MgCl_2$.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
H. J. DAGER, INSPECTOR.								
	p. c.	p. c.	p. c.	p. c.	p. c.			
"Sunflower" Brand prepared with a small quanity of bicarbonate of soda.	0·19	0·14	0·34	0·15	Trace	.....	51521	
"Salt Selphosa" reg. trade mark.	0·11	1·00	0·10	0·10	Trace	Residue is mostly $MgCO_3$ with a little $CaCO_3$.	51522	Insoluble matter high.
Above 99 per cent pure.	0·05	Nil.	0·10	0·07	"	.....	51523	
"Salt Royal," Salt Royal Salt Co., Manchester, Eng.	0·03	0·23	Nil.	Trace	"	Residue is $MgCO_3$ and $CaCO_3$.	51524	Insoluble matter high.
Windsor Table Salt, purest and best.	0·12	Nil.	0·53	0·38	"	.....	51525	
"Anchor" Brand free running shaker salt.	0·12	1·71	0·70	0·75	0·38	Residue is mostly $MgCO_3$ with some $CaCO_3$.	51526	Insoluble matter high.
"Century" Brand, free from adulterants of any kind.	·34	Trace	1·02	0·74	Nil.	.....	51527	Sulphates high.
"Cliffe" Brand.	0·26	0·91	0·55	0·44	"	Residue is starch.	51528	Insoluble matter high.
"Acme" Salt	0·31	1·02	0·77	0·56	Trace	" "	51529	"
"Purity" Brand.	0·17	1·06	0·58	0·35	"	Residue is $CaCO_3$.	51530	"
JOHN TALBOT, INSPECTOR.								
Century Table Salt.	0·25	Trace	0·82	0·61	Trace	.....	47904	Sulphates high.
"	0·30	"	1·04	0·73	"	.....	47910	"
"	0·44	"	1·00	0·72	"	.....	47911	"
Windsor Table Salt, purest and best.	0·60	"	0·59	0·38	Nil.	.....	47914	
"	0·13	"	0·52	0·39	Trace	.....	47915	
"	0·12	"	0·39	0·33	"	.....	47916	
"	0·16	"	0·54	0·42	Nil.	.....	47917	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF WINDSOR	
1913.							
Jan. 6	Table salt.	47922	W. A. Mumr, St. Thomas.	1 pkge	5	Canadian Salt Co., Windsor, Ont.	
" 6	"	47923	J. C. Gillman, St. Thomas.	1 "	5	" "	
						DISTRICT OF MANITOBA—	
Feb. 3	Table salt.	48806	Hardy & Buchanan, 112 Osborne St., Winnipeg.	1 lb.	5	Canadian Salt Co., Windsor, Ont.	Campbell Bros. & Wilson, Winnipeg.
" 3	"	48807	T. Brown, 193 Pembina St., Winnipeg.	1 "	5	Dom. Salt Co.	A. MacDonald & Co., Winnipeg.
" 3	"	48808	G. T. Grant, 211 Pembina St., Winnipeg.	1 "	5	Canadian Salt Co., Windsor, Ont.	The Codville Co., Winnipeg.
" 3	"	48809	J. Bennett, 219 Nassau St., Winnipeg.	1 "	10	" "	Richards Brown & Co., Winnipeg.
" 3	"	48810	McBeans, Gertrude Ave., Winnipeg.	1 "	10	" "	The Codville Co., Winnipeg.
" 3	"	48811	W. Nicholson, 605 Corydon Ave, Winnipeg.	1 "	5	" "	Campbell Bros. & Wilson, Winnipeg.
" 3	"	48812	W. Allison, 759 Corydon Ave., Winnipeg.	1 "	10	Diamond Crystal Salt Co.	Richards Brown & Co., Winnipeg.
" 3	"	48813	L. Kirvel, 781 Corydon Ave., Winnipeg.	1 "	10	" "	" "
" 4	"	48814	Francis Bros., Norwood Grove.	1 "	5	Canadian Salt Co., Windsor.	The Codville Co., Winnipeg
" 4	"	48815	J. Donnelly & Son, Norwood Grove.	1 "	10	" "	Campbell Bros. & Wilson, Winnipeg.
						DISTRICT OF ROCKY MOUNTAINS—	
Jan. 3	Table salt.	49795	J. Davis & Co., Grand Forks, B.C.	1 sack	15	Canadian Salt Co., Windsor.	
" 3	"	49800	J. Donaldson, Grand Forks, B.C.	1 "	10	C. E. Whitney & Co., San Francisco, Cal.	
" 3	"	49801	" "	1 jar	15	W. H. Malkin & Co., Vancouver, B.C.	
" 8	"	49805	J. Svoboda, Nelson, B.C.	1 "	15	Diamond Crystal Salt Co., St. Clair, Mich.	
" 8	"	49808	Hudsons Bay Co., Nelson, B.C.	1 "	15	C. E. Whitney & Co., San Francisco, Cal.	
" 8	"	49809	" "	1 sack	10	Canadian Salt Co., Windsor, Ont.	
" 8	"	49810	Citizens Co-op. Asso., Nelson B.C.	1 "	10	C. E. Whitney & Co., San Francisco, Cal.	
Feb. 8	"	49815	Hunter Bros., Rossland, B.C.	1 jar.	15	" "	
" 8	"	49816	H. T. Bilkey, Rossland, B.C.	"	15	W. H. Malkin & Co., Vancouver, B.C.	
" 8	"	49817	" "	1 sack	10	Canadian Salt Co., Windsor, Ont.	

TABLE SALT.

—*Concluded.*

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Moisture.	Insoluble.	SO_3.	Lime (CaO).	Magnesia (as Chloride) $MgCl_2$.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	p. c.	p. c.	p. c.	p. c.	p. c.			
Windsor Table Salt.	0·18	Trace	0·36	0·48	Trace		47922	
	0·14	"	0·48	0·35	"		47923	
H. ASHTON, ACTING INSPECTOR.								
	0·26	Trace	0·65	0·50	Trace		48806	
	0·43	"	1·12	0·81	"		48807	Sulphates high.
	0·19	"	0·81	0·54	"		48808	"
"Regal" Brand.	0·28	0·95	0·64	0·37	0·45	Residue mostly $MgCO_3$.	48809	Insoluble matter high.
"	0·25	0·90	0·74	0·31	0·48	Residue $MgCO_3$ and $CaSO_4$.	48810	"
	0·19	Trace	0·59	0·41	Nil		48811	
"Shaker" Brand.	0·15	0·56	0·12	Trace	0·36	Residue mostly $MgCO_3$.	48812	Insoluble matter high.
	0·12	0·55	0·12	"	0·36	" "	48813	"
	0·17	Trace	0·62	0·45	Trace		48814	
"Regal" Brand.	0·30	0·90	0·70	0·28	0·49	Residue is $MgCO_3$ and $CaSO_4$.	48815	Insoluble matter high.
THOS. PARKER, INSPECTOR.								
	0·16	Trace	0·47	0·35	Nil		49795	
	0·07	"	Trace	0·08	Trace		49800	
	0·25	0·98	0·71	Trace	1·04	Residue is $MgCO_3$.	49801	Insoluble matter high.
	0·12	0·28	Trace	"	0·81	" "	49805	"
"Leslie Baker."	0·07	0·85	"	"	Trace	Residue is $MgCO_3$ with a little $CaCO_3$.	49808	
"Windsor"	0·15	Trace	0·58	0·42	"		49809	
"Leslie."	0·10	"	0·38	0·33	"		49810	
	0·14	1·07	Trace	Trace	0·67	Residue is $MgCO_3$.	49815	Insoluble matter high.
	0·36	0·95	0·68	"	1·08	" "	49816	"
	0·10	Trace	0·32	0·24	Trace		49817	

BULLETIN No. 270—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF VANCOUVER	
1913.							
Jan. 25	Table Salt.	38494	A. C. Bartig, Fairview, Vancouver, B.C.	1 pkge	15	C. W. Whitney & Co., San Francisco, Cal.	
" 25	"	38195	A. MacFarlane, 1449 Broadway W., Vancouver, B.C.	1 "	15		W. H. Malkin, Vancouver, B.C.
" 25	"	38496	Morrow & Deane, Yew St., Vancouver, B.C.	1 "	5	Canadian Salt Co., Windsor, Ont.	
" 28	"	38197	Columbia Produce Co., 2234 Granville St., Vancouver, B.C.	1 "	5	San Francisco Salt Refining Co., San Francisco.	
Feb. 20	"	38198	Webster Bros., Granville St., Vancouver, B.C.	1 "	15	Diamond Crystal Salt Co., St. Clair, Mich., U.S.A.	
" 20	"	38199	H. H. Owens, Granville and Helmken Sts., Vancouver, B.C.	1 "	10	Windsor Salt Co., Windsor, Ont.	
" 20	"	38500	Walford & Roney, Granville St., Vancouver, B.C.	1 "	10	C. E. Whitney & Co., San Francisco.	
						DISTRICT OF VICTORIA—	
Jan. 13	Table Salt.	49283	Windsor Grocery Co., 817 Fort St., Victoria, B.C.	1 lb.	5		Simon Leiser & Co., Ltd., Victoria, B.C.
" 13	"	49286	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	1 "	10	E. E. Whitney & Co., San Francisco, Cal.	
" 14	"	49290	Dixi H. Ross & Co., 1317 Govt. St., Victoria, B.C.	1 "	10	C. E. Whitney & Co., San Francisco, Cal.	
" 14	"	49294	Harrison & McDonald, 1218 Douglas St., Victoria, B.C.	1 "	10	" "	
" 15	"	49296	Copas & Young, 631 Fort St., Victoria, B.C.	1 "	10	Canadian Salt Co., Windsor, Ont.	
" 15	"	49298	H. O. Kirkham & Co., 741 Fort St., Victoria, B.C.	1 "	10	C. E. Whitney & Co., San Francisco, Cal.	
" 15	"	53501	Acton Bros., 1317 Douglas St., Victoria, B.C.	1 "	5	The Sarnia Salt Co., Ltd., Sarnia, Ont.	
" 15	"	53503	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	1 "	5	Windsor Salt Co., Liverpool, Eng.	
" 15	"	53505	Woods & White, 1309 Gladstone Ave., Victoria, B.C.	1 "	15	Diamond Crystal Salt Co., St. Clair, Mich.	
" 15	"	53507	Wm. Marshall, 1422 Fort St., Victoria, B.C.	1 "	10	Canada Salt Co., Windsor, Ont.	

TABLE SALT.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Moisture.	Insoluble.	SO_3.	Lime (CaO).	Magnesia (as Chloride) $MgCl_2$.	Remarks.	No. of Sample.	Remark and Opinion of the Chief Analyst.
J. F. POWER, INSPECTOR.								
	p. c.	p. c.	p. c.	p. c.	p. c.			
..	0·15	1·08	0·26	0·45	Trace.	Residue mostly $MgCO_3$.	38494	Insoluble matter high.
	0·30	1·13	0·64	0·32	0·42	Residue is $CaSO_4$ and $MgCO_3$.	38495	"
	0·18	Trace.	0·58	0·44	Nil.		38496	
	0·06	Nil.	0·05	0·07	Trace.		38497	
	0·14	0·67	Trace.	Trace.	0·40	Residue is $CaSO_4$ and $MgCO_3$.	38498	Insoluble matter high.
	0·22	Trace	0·61	0·46	Trace.		38499	
"Leslie's" Table Salt.	0·00		0·15	0·15	Nil.		38500	
D. O'SULLIVAN, INSPECTOR.								
	0·29	Trace.	0·88	0·60	Trace.		49283	Sulphates high.
"Leslie" Salt.	0·10	"	Trace.	Trace.	"		49286	
	0·10	"	0·27	"	"		49290	
	0·09	"	0·19	0·14	"		49294	
"Windsor" Table Salt.	0·17	"	0·84	0·47	"		49296	Sulphates high.
"Leslie" Salt	0·08	"	0·18	0·14	"		49298	
"Beaver" Brand Salt.	0·14	"	0·50	0·39	"		53501	
	0·24	"	0·87	0·57	"		53503	Sulphates high.
	0·16	0·68	0·13	Trace.	"	Residue is $MgCO_3$.	53505	Insoluble matter high
"Windsor" Table Salt.	0·21	Trace	0·56	0·42	Nil.		53507	

APPENDIX N

BULLETIN No. 271 MUSTARD.

OTTAWA, November 11, 1913.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I have the honour to hand you a report upon 167 samples of mustard purchased throughout Canada in February, March and April of this year.

It has not yet been found possible to establish standards for this article. Our last systematic inspection was made in 1909, and the results are published as Bulletin No. 176.

From the preface to this Bulletin, I quote the following:—

'In Bulletin No. 19, the late Chief Analyst directs attention to the need of definite standards for mustard; and suggests the adoption of a minimum limit of 30 per cent fixed oil for genuine mustard, and of 22 per cent for compound mustard.

'The importance of legalizing a definition of mustards is undeniable, and until this is done, I find it quite impossible to declare adulteration in any of the extremely variable samples, sold under this name.

'That such definition should depend mainly upon a percentage of fixed oil in the article, is not so clear. The fixed oil of mustard is present in mustard seeds (both black and white) to the extent of about 25 per cent: and the sifted farina of mustard contains this oil to about 35 per cent or slightly higher. (Piesse and Stansell; The Analyst, 1880, p. 161.)

'But the value of mustard as a condiment does not depend upon the content of fixed oil. White mustard, which *per se*, has little condimental value, contains as much fixed oil as black mustard. Nor did the late Chief Analyst suggest the determination of fixed oil in mustard as being itself directly an element of value in the condiment, but rather as a means of ascertaining the amount of foreign material present in admixtures. This added material is usually starch or turmeric, and is practically fat free.

'Since the fixed oil in mustard seed is fairly constant, the suggestion to make the percentage of fixed oil in mustard flour a basis for calculating the amount of foreign matter added is a reasonable one, provided that mustard seed is always ground in its natural state, i.e., without removal of any portion of the fixed oil. This, however, is not the case. The oil greatly interferes with the pulverizing of the seed, and over 75 per cent of it may be removed by pressure before grinding, so that estimation of the fixed oil in the finished product, affords no trustworthy basis for calculation as to foreign matter added. The fixed oil of mustard is a bland oil, applicable to various dietetic purposes, but quite devoid of such condimental properties as are valued in mustard.

'The characteristic pungency of mustard is due to a volatile oil, only traces of which exist in the dry mustard, but which is developed, by the action of a ferment (myrosin) upon potassium myronate, in the presence of water. It is only upon mixing mustard with water that the pungent flavour is developed. Potassium myronate is present to the extent of about 1·5 per cent in black mustard seed, and is practically absent from white mustard. This latter contains only traces of volatile oil as such, while about half of one per cent is present in the black seed. It follows, from what has been said, that the better way of valueing mustard, would be by direct estimation of its volatile oil, after a treatment converting potassium myronate into this last.

'It is found in practice, that although the white mustard seed contains no potassium myronate, its presence in admixture with the black seed assists in the generation of volatile oil from the latter; and for this reason the two varieties are ground together. This is due to the fact that a ferment (myrosin) whose presence determines the conversion of potassium myronate into volatile oil of mustard, is more largely present in white than in black mustard, although the glucoside (*sinigrin*) upon which it acts, to develop the volatile oil is practically absent from white mustard. A glucoside (Sinalbin) exists in white mustard, which, when acted upon by water in presence of myrosin, yields an oil (Sinalbin mustard oil) which has the pungent, burning taste, and vesicating properties of the volatile oil of black mustard; but this oil is only slightly volatilized with steam, and its presence does not materially interfere with the estimation of volatile mustard oil. (Allylisothiocyanate.)

'From the work of Piesse and Stansell already quoted, F. Sutton (Allen's Commercial Organic Analysis; vol. III, part 3, p. 116); Schlicht (Zeits. Anal. Chem. XXX. 661), and others, I am of opinion that the determination of volatile oil of mustard is practicable as a means of assaying commercial mustard; and I hope to investigate this matter more fully at an early date.

'The following definition of mustard has been adopted by the United States Department of Agriculture (Circular No. 13, Dec. 20, 1904, p. 11):—

'"Ground Mustard is a powder made from mustard seed, with or without the removal of the hulls and a portion of the fixed oil, and contains not more than two and five-tenths (2·5) per cent of starch and not more than eight (8) per cent of total ash."'

'This definition leaves much to be desired, as it makes no reference to the component (volatile oil) upon which the real value of ground mustard depends, whether considered as a condiment, or as a vesicant.

'It will be seen on looking through the tables in this report, that very few samples of mustard found on the Canadian Market are free from starch and turmeric. Nor is

it to be understood that the addition of starch and turmeric is made for purposes of fraud. Certain brands of this condiment, which have been on the world's markets for generations, and have received recognition and honours at International Exhibitions, are avowedly mixtures of mustard farina with other materials. The public have approved of these compounds; and other manufactures have, on this account, been led to imitate them. It may be, as alleged by some makers, that the presence of starchy matters is necessary, to give better keeping quality to the article, which without starch, tends to become lumpy and sticky; that turmeric is desirable to give a pleasing colour to mustard, especially when mixed with water for the table; that the removal of a large percentage of the fixed oil is necessary to permit of satisfactory grinding and sifting. On the other hand, it is claimed that the seeds of white mustard although not possessed of the pungent properties essential to mustard as a condiment, contain the finer and distinctive flavours of mustard, and are as necessary to the production of a desirable condiment as the black mustard. And further that even the same variety of seeds exhibits so great differences in crops of different years that it is impossible to make satisfactory blends except under the guidance of an expert, who is guided rather by the cultivated senses of taste, and smell, than by varietal differences in the seeds themselves. However this may be, it is certain that mustard should be sold for what it is; and that the presence of added matters should be announced on the label.

'The question of the amount of added matters which may be permitted is serious, from the point of view of the use of mustard as a domestic remedy, in blisters, poultices, emetics, &c. The mustard of the pharmacopœias permits of no admixture. Mustard as a condiment is another matter, and the public should learn to recognize the distinction between the two. Condimental mustard may be regarded as a substitute, in emergency, for the pharmacopœal mustard, but by no means to be confused with this last.

'But even as a condiment, there is a degree of dilution which amounts to fraud. The fixing of limits defining mustard for condimental purposes is under consideration. The problem is not a simple one, and I am not yet in a position to submit a formal solution.'

I do not find it possible to add anything of importance to the above, which states very fairly the position of our knowledge regarding mustard.

The analytical results presented in the accompanying report are of value as furnishing additional data for the defining of standards for commercial or condimental mustard.

An effort will be made to have such standards prepared without delay, and meanwhile I would respectfully advise the publication of this report as Bulletin No. 271.

I have the honour to be, sir,
Your obedient servant.

A. McGILL,
Chief Analyst.

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
Mar. 6	Mustard.	46926	National Drug Co., Halifax, N.S.	¼	lb.	30 J. & J. Coleman, London, Eng.	
" 10	"	46927	A. J. Baker, Halifax, N.S.	¾	"	30 Gorman & Eckert, London, Ont.	"
" 10	"	46928	T. J. Brown, Halifax, N.S.	¾	"	23 Unknown	Morrison & Williams, Halifax, N.S.
" 10	"	46929	W. J. Hopgood & Son, Halifax, N.S.	¼	"	30 J. & J. Coleman, London, Eng.	John Tobin & Co., Halifax, N.S.
" 11	"	46930	E. W. Crease & Son, Halifax, N.S.	¾	"	25 Keens, London, Eng.	Manufacturers agent
" 12	"	46931	Morrison & Williams, Halifax, N.S.	¾	"	15 E. E. Durkee & Co., New York,	Manufacturers
" 19	"	46932	De Wolf & Lamont, Kentville, N.S.	4	"	38 Keens, London, Eng.	R. B. Section, Halifax, N.S.
" 24	"	46933	Black & Co., Truro, N.S.	¾	"	33 J. & J. Coleman, London, Eng.	Manufacturers
" 27	"	46934	C. McNab & Co., Dartmouth, N.S.	¾	"	22 J. P. Mott, Halifax, N.S.	Manufacturer
" 27	"	46935	G. A. Orman, Dartmouth, N.S.	¾	"	23 Unknown	Bauld Bros., Ltd., Halifax, N.S.
DISTRICT OF PRINCE EDWARD ISLAND—							
Feb. 27	Mustard.	46379	L. A. Haszard, Charlottetown, P.E.I.	¾	lb.	27 Colman's, London, Eng.	
" 28	"	46380	A. Gates & Co., Charlottetown, P.E.I.	¾	"	45 J. & J. Coleman, London, Eng.	
Mar. 3	"	46381	Reddin Bros., Charlottetown, P.E.I.	¾	"	30 Keens, London, Eng.	Lyman Sons & Co., Ltd., Montreal.
" 5	"	46382	S. Beaton, Bonshaw, P.E.I.	¾	"	30 Scott's Extract Co., St. John, N.B.	
" 5	"	46383	Lord Co., Cape Traverse, P.E.I.	¾	"	24 Unknown	
" 6	"	46384	R. H. Cameron, Crapaud, P.E.I.	¾	"	30 G. E. Barbour & Co., St. John, N.B.	
" 6	"	46385	P. D. Hagan, Tyrone, P.E.I.	¾	"	30	Carvell Bros., Charlottetown, P.E.I.
April 25	"	46386	Sinclair & Stewart, Summerside, P.E.I.	¾	"	30 Swartz & Sons, Halifax, N.S.	
DISTRICT OF NEW BRUNSWICK—							
Feb. 25	Mustard	50555	H. W. Cole, Ltd., St. John, N.B.	3	tins.	45 J. & J. Colman, Ltd., London, Eng.	
" 25	"	50556	Dearborn & Co., Ltd., St. John, N.B.	¾	lb.	21 Vendors	
" 27	"	50557	Baird & Peters, St. John, N.B.	¾	"	12 Colburn, Philadelphia, Pa.	
" 27	"	50558	Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	¾	"	25 G. S. Dunn & Co., Hamilton, Ont.	

SESSIONAL PAPER No. 14

MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.		
R. J. WAUGH, INSPECTOR.					
	p. c.				
	4·1	Traces..		46926	
	3·4	28·1	Wheat starch	46927	
	4·7	11·7	Traces wheat starch..	46928	
	3·8	6·8	" "	46929	
	4·0	8·1	" "	46930	
	5·1	13·7	Turmeric.	46931	
	4·0	6·8	Traces wheat starch .	46932	
	4·1	11·8	A small amount wheat starch.	46933	
	2·2	50·6	Wheat starch, turmeric	46934	
	4·1	22·5	" "	46935	
WM. A. WEEKS, INSPECTOR.					
	4·6	Traces..		46379	
	3·8	5·0	Traces wheat starch	46380	
	2·7	22·4	Wheat starch	46381	
	4·3	5·6	Traces wheat starch	46382	
	2·1	34·6	Wheat starch, turmeric	46383	
	4·3	5·0		46384	
	1·8	22·4	Wheat starch, traces turmeric..	46385	
	2·9	51·8	Wheat starch	46386	
J. C. FERGUSON, INSPECTOR.					
Double Superfine	3·7	6·8	Traces wheat starch	50555	
	4·0	15·6	" turmeric	50556	
Sold as Compound, English Brand	2·3	48·7	" "	50557	
	4·8	21·2	" "	50558	

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK—							
1913.							
Mar. 7	Mustard..	50559	W. A. Simonds, St. John, N.B.	¾ lb.	45	J. Farrow & Co., Peterborough, Eng.	...
" 10	" ..	50560	M. E. Grass, St. John, N.B.	¾ "	30	Unknown.....	Unknown ..
Apr. 7	" ..	50561	G. E. Barbour & Co., Ltd., St. John, N.B.	¾ "	21	Vendors.....	
" 18	" ..	50562	H. N. Dickinson, Perth, N.B.	¾ "	30	G. E. Barbour & Co., Ltd., St. John, N.B.	. . .
" 23	" ..	50563	J. A. Davidson, Sussex, N.B.	¾ "	25	Scotts Extract Co., St. John, N.B	. . .
" 24	" ..	50564	H. T. Brewster, Moncton, N.B.	¾ "	27	. . . . .	Reed & Co., Ltd., Moncton, N.B.
DISTRICT OF QUEBEC—							
Feb. 24	Mustard..	37138	Benjamin Crepeault, 68 Rue Cremaise, Montcalmville.	¾ "	18	J. & J. Coleman, London, Eng.	J.B. Reneaud & Cie., Quebec.
" 25	"	37139	F. Racine, 66 Rue Cremaise, Montcalmville.	¾ "	24	" " ..	N. Turcot & Cie., Quebec.
" 26	" .	37140	Jos. Brulot, 11 Chemin, St. Foie.	¾ "	30	" " .	Boivin & Grenier, Quebec.
" 27	" ..	37141	Jos. Bedard, 113 2me. Rue Stadacona, Quebec.	¾ "	30	" " ..	Unknown ....
" 27	" ...	37142	Francois Cliche, 4 2m. Rue 11f Stadacona, Quebec.	¾ "	22	" " ..	Quebec Preserving Co., Quebec.
Mar. 3	" .	37143	F Grenier, 53 Rue Scott, Quebec.	¾ "	21	" " ..	Turcot & frère, Quebec.
" 3	" ..	37144	F. Delisle, 60 Rue Scott, Quebec.	¾ "	18	" " ..	Langlois & Paradis, Quebec.
" 3	" ..	37145	Jos. F. Goslin, 50 Rue D'Orchester, Quebec.	¾ "	45	" " ..	Joseph & Co., Quebec
" 4	" .	37146	Charle Martel, 49 Rue D'Antigny, Quebec.	¾ "	20	" " ..	J. B. Reneaud & Cie., Quebec.
" 4	" ..	37147	A. Roy, 112½ Rue Scott, Quebec.	¾ "	21	" " ..	Turcot & frère, Quebec.
DISTRICT OF THREE RIVERS—							
Mar. 17	Mustard.	57215	G. H. Read, St. Felix de Valois.	¾ lb	45	Keens, London, Eng.	... .
" 17	" ..	57218	Thernas Guibord, St. Felix de Valois.	¾ "	30	" " .	....
" 17	" .	57221	Louis Enos, St. Felix de Valois.	¾ "	15	.. ..	Jos. Dufresne, Joliette, Que.
" 17	" ..	57224	Jos. Mosseau, St. Felix de Valois.	3 pkgs	30	Keens, London, Eng.	.. . .

SESSIONAL PAPER No. 14

MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.		
	p. c.				
Concluded.					
Farrows A. 1. Double Superfine	4·1	11·2	Traces wheat starch, turmeric	50559	
	3·9	26·8	" "	50560	
	3·9	Traces.		50561	
Acorn Brand	4·1	"		50562	
	4·5	6·7		50563	
	4·9	7·2		50564	
F. X. W. E. BELAND, INSPECTOR.					
	3·6	17·5	Wheat starch, turmeric	37138	
	3·6	15·6	" "	37139	
	3·6	18·1	" "	37140	
	3·8	10·6	Small amount wheat starch	37141	
	3·5	20·2	Wheat starch, turmeric.	37142	
	3·5	20·2	" "	37143	
	3·5	16·8	" "	37144	
	3·8	12·5	Small amount wheat starch	37145	
	4·0	13·1	Small amount wheat starch, traces turmeric.	37146	
	1·8	17·5	Wheat starch, turmeric	37147	
DR. V. P. LAVALLEE, INSPECTOR.					
	3·1	45·1	Wheat starch, turmeric	57215	
	4·1	6·2	Traces wheat starch	57218	
	2·9	30·6	Wheat starch, turmeric	57221	
	4·1	11·2	Traces wheat starch, turmeric	57224	

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF THREE RIVERS—							
1913.							
Mar. 18	Mustard	57228	Ernest Asselin, St. Felix de Valois.	¾ lb.	30	Keens, London, Eng	
" 19	"	57232	Esdras Asselin, St. Felix de Valois.	¾ "	25		Jos. Dufresne, Joliette, Que.
" 19	"	57235	Louis Bellerose, St. Felix de Valois.	¾ "	24	Keens, London, Eng.	
" 22	"	57237	Arthur Guilbeault, Joliette.	¾ "	45	" "	
" 22	"	57240	C. Barrette, Joliette....	¾ "	42	" "	
" 22	"	57244	Magnan Frères, Joliette	¾ "	45	" "	
DISTRICT OF EASTERN TOWNSHIPS							
Mar. 10	Mustard	1513	P. Thibault, Victoriaville.	3 pkgs	39	Marratte, Leblanc & Cie, Montreal.	
" 10	"	1514	E. Lambert, Victoriaville.	3 "	45		
" 12	"	1515	F. X. Thivierge, Beauceville.	¾ lb.	18		Unknown.
" 13	"	1516	Ferd. Pepin, Ste. Marie.	¾ "	15		"
" 17	"	1517	Aug. Provencher, Windsor Mills.	¾ "	19	Pure Gold Mfg. Co., Toronto.	
" 18	"	1518	J. O. Bertrand, Coaticook.	¾ "	28		Unknown.
" 19	"	1519	Bernard & Cie, Sherbrooke.	¾ "	30		"
" 19	"	1520	H. Chamberlain, Magog.	¾ "	23		Forbes Bros., Montreal.
April 15	"	1521	Mag. Martel, Actonvale.	¾ "	19		
" 17	"	1522	L. E. Thibaudeau, Plessisville.	¾ "	18	The F. F. Dalley Co., Ltd., Hamilton.	
DISTRICT OF MONTREAL—							
Mar. 11	Mustard	51256	E. Tessier, 982 St. Catharine E., Montreal.	¾ lb.	28		F. G. Payette, Montreal.
" 11	"	51257	L. Mauer, 180 Dorchester west, Montreal.	¾ "	30	W. G. Dunn & Co., Hamilton, Ont.	
" 11	"	51258	Dr. Drustein, 100 St. Catharine west, Montreal.	¾ "	23		
" 12	"	51259	E. Martin, 203 Laurier Ave. west, Montreal.	¾ "	25		
" 12	"	51260	E. Gandey, 31 Laurier Ave. west, Montreal.	¾ "	25		

SESSIONAL PAPER No. 14

MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.		
Concluded.					
	p. c.				
	3·0	28·1	Wheat starch, turmeric	57228	
	2·9	31·8	" "	57232	
	2·8	31·8	" "	57235	
	4·0	11·2	Traces wheat starch	57237	
	3·8	11·8	" "	57240	
	4·0	8·7	" "	57244	
J. C. ROULEAU, INSPECTOR.					
	4·4	30·6	Wheat starch, turmeric	1513	
	4·0	Traces.	Traces wheat starch	1514	
	3·5	15·6	Wheat starch, traces turmeric	1515	
	3·5	17·5	" "	1516	
	2·8	43·2	" "	1517	
	1·6	52·5	"	1518	
	0·4	8·1	Traces wheat starch, turmeric	1519	
	3·2	48·1	Wheat starch, turmeric	1520	
	4·5	30·6	" "	1521	
	2·6	44·3	" "	1522	
J. J. COSTIGAN, INSPECTOR.					
	3·2	49·9	Wheat Starch, turmeric	51256	
	3·1	36·8	" "	51257	
	2·4	48·7	" "	51258	
	2·8	30·0	" "	51259	
Labelled Fine Mustard Compound.	2·3	33·7	" "	51260	

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF MONTREAL							
1913.							
Mar. 12	Mustard	51261	O. Saussegret, 2011 Clark St., Montreal.	¾ lb	30		
12	"	51262	J. A. Carriere, 91 Laurier Ave. east, Montreal.	¾ "	30		Hudon, Hebert & Cie. Montreal.
12	"	51263	J. M. Lefebvre, 166 Laurier Ave., Montreal.	¾ "	30		
12	"	51264	Pelletier et frere, 1030 Henri Julian Ave., Montreal.	¾ "	25		
12	"	51265	L. P. Dealieres, 1750 Cadieux St., Montreal.	¾ "	25		
DISTRICT OF VALLEYFIELD—							
Mar. 13	Mustard	51336	W. Beaudry, Valleyfield, P.Q.	¼ lb	27		
13	"	51337	J. Z. Daonst, Valleyfield, P.Q.	¾ "	30		
19	"	51338	E. Z. Labrosse, Vankleek Hill, Ont.	¾ "	30		
19	"	51339	P. T. McLaurin, Vankleek Hill, Ont.	¾ "	18		
19	"	51340	John Wilson, Vankleek Hill, Ont.	¾ "	20		
20	"	51341	L. P. Pattee, Hawkesbury.	¾ "	25	J. V. Boudrais, Montreal.	
20	"	51342	A. M. Steele, Hawkesbury.	¾ "	27	J. Barron, Lachute, P.Q.	
20	"	51343	F. X. Bertrand, Hawkesbury.	¾ "	19		
" 24	"	51344	A. Markson, Alexandria, Ont.	¾ "	20		
DISTRICT OF OTTAWA—							
Feb. 22	Mustard	51713	Thos. Stevens, Carleton Place.	¾ lb.	25	Pure Gold Mfg. Co., Toronto.	Manufacturers
22	"	51714	Alex. Sibbitt, Carleton Place.	¾ "	26	" "	"
22	"	51715	Bowland & McRostie, Carleton Place.	¾ "	30	Unknown	Robertson Nicolle, Kingston.
24	"	51716	Jas. MacPherson, Arnprior.	¾ "	20	Pure Gold Mfg. Co., Toronto.	Manufacturers
25	"	51717	J. McDermid, Finch	¾ "	22	Unknown	Stedman Bros., Brantford, Ont.
" 27	"	51718	J. E. Cook, Winchester.	¾ "	35	"	Unknown

SESSIONAL PAPER No. 14

MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.		
Concluded.					
	p. c.				
.	1·5	22·5	Wheat Starch, turmeric .	51261	
	4·0	31·8	„ „ .	51262	
.	4·6	11·2	Traces Wheat Starch, turmeric	51263	
	3·3	31·8	„ . .	51264	
Sold as Best Compound Mustard.	3·1	41·2	„ „ .	51265	
J. J. COSTIGAN, ACTING INSPECTOR.					
. . ..	2·8	31·8	Wheat Starch, turmeric	51336	
....	1·7	54·3	„ „	51337	
.. ..	2·8	32·4	„ „	51338	
Sold as Durham Compound.	3·1	48·7	„ „	51339	
Sold as Condiment Mustard.	2·6	48·7	„ .	51340	
. . ..	2·8	48·7	„ „	51341	
....	1·1	57·4	„ „	51342	
.. ..	2·9	31·2	„ „	51343	
....	3·4	36·8	„ „	51344	
J. A. RICKEY—INSPECTOR.					
Superfine . . .	6·2	40·6	Wheat starch, turmeric. . .	51713	
Durham.	6·1	40·6	„ „ ...	51714	
...	3·8	55·6	„ „	51715	
.....	5·4	48·7	„ „	51716	
....	5·5	5·5	Small amount wheat starch, turmeric.	51717	
....	5·5	18·3	Wheat starch, turmeric ..	51718	

BULLETIN No. 271—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1913.							
Feb. 25	Mustard	51719	A. Sweet & Co., Winchester.	¾ lb.	23		White Swan S. & C. Co., Toronto.
" 27	"	51720	E. Ackland, Creighton St., Ottawa.	¾ "	23		Provost & Allard, Ottawa.
" 27	"	51766	Motard & Cie., St. Patrick St., Ottawa.	¾ "	15		H. N. Bate & Sons, Ottawa.
" 27	"	51767	S. Dignard, St. Patrick St., Ottawa.	¾ "	20		S. J. Major, Ltd., Ottawa.
DISTRICT OF KINGSTON—							
Mar. 10	Mustard	45768	J. Paisley, Napanee	3 tins	45	Keens, London, Eng	
" 10	"	45769	H. W. Kelly, Napanee.	¾ lb	24	Todhunter & Mitchell, Toronto.	
" 10	"	45770	Newman Livingston, Napanee.	¾ "	30		F. Newman, Picton.
" 10	"	45771	G. W. Boyes, Napanee	3 tins	25	J. M. Lowes Co., Toronto.	
Feb. 20		53052	W. J. Lee, Kingston	3 "	45	Keens, London, Eng.	
" 20		53053	W. J. Arniel, Kingston.	¾ lb.	21		W. G. Craig, Kingston.
" 20		53054	W. J. Nesbitt, Kingston.	¾ "	20	J. M. Lowes Co., Ltd., Toronto.	
" 21		53055	Jno. Gordon, Kingston.	3 tins	45	Keens, London, Eng.	
" 21		53056	W. E. Hopkinson & Bro., Kingston.	¾ lb.	30	White Swan Co., Toronto.	
" 25	"	53060	W. D. Stephens, Port Hope.	3 tins	45	Keens, London, Eng.	
DISTRICT OF TORONTO—							
Feb. 27	Mustard	57011	J. Everingham, 185 Wilton Ave., Toronto.	¼ lb	10	White Swan Mills, Toronto.	
" 28	"	57012	R. C. Soules, 234 De Grasse St., Toronto.	¼ "	8		Dalton Bros., Toronto.
" 28	"	57013	A. Devlin, 76 Ossington Ave., Toronto.	¼ "	8		Unknown
Mar. 4		57014	P. Conlin, 493 Parliament St., Toronto.	¼ "	10		Todhunter, Mitchell & Co., Toronto.
" 4	"	57015	J. Whitelaw & Son, 874 Bathurst St., Toronto.	¼ "	10		Unknown
" 5	"	57016	E. Broad, 468 Pape Ave., Toronto.	¼ "	8	Dalton Bros., Toronto.	
" 5	"	57017	H. Kelly, 1232 College St., Toronto.	¼ "	6	Pure Gold Mfg. Co., Ltd., Toronto.	
" 6	"	57018	G. W. Blanchard, 2014 Queen St. east, Toronto	¼ "	7		The J. M. Lowes Co., Ltd., Toronto.

SESSIONAL PAPER No. 14

MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.		
Concluded.					
	p. c.				
	4·9	8·0	Small amount wheat starch, turmeric.	51719	
	3·3	60·0	Wheat starch, turmeric	51720	
	4·7	51·8	" "	51766	
	5·1	56·2	" "	51767	
JAS. HOGAN, INSPECTOR.					
	4·0	5·9		45768	
	3·0	35·5	Wheat starch, traces turmeric	45769	
	2·7	23·0	Wheat starch	45770	
	2·2	22·5	Wheat starch, turmeric	45771	
	4·1	6·2	Traces wheat starch	53052	
	5·0	50·0	Wheat starch, turmeric	53053	
	4·7	51·8	" "	53054	
	4·1	8·1	Traces wheat starch, turmeric	53055	
	3·6	53·1	Wheat starch, turmeric	53056	
	4·2	8·3	Traces wheat starch	53060	
H. J. DAGER, INSPECTOR.					
Sold as pure	4·7	33·7	Wheat Starch, turmeric	57011	
	2·7	33·1	"	57012	
	2·7	25·0	"	57013	
	2·3	36·8	" "	57014	
	1·9	43·1	"	57015	
	2·6	35·5	"	57016	
	1·5	48·7	" "	57017	
	1·7	46·2	" "	57018	

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1913.							
Mar. 7	Mustard	57019	W. J. Cooper, 234 Royce Ave., Toronto.	¼ lb.	7	....	T. Kinnear, Toronto
" 7	"	57020	Baker & Linton, 1980 Dundas St. west, Toronto.	¼ "	7	....	White Swan Mills, Toronto.
DISTRICT OF HAMILTON—							
April 9	Mustard	57111	James Bros., 431 Colborne St., Brantford.	¼ lb.	8	F. F. Dalley Co., Hamilton.	.....
" 9	"	57112	J. E. Church, 44 Mary St., Brantford.	¼ "	8	.....	Unknown
" 10	"	57113	John Walter, Paris, Ont.	¼ "	8	....	White Swan Cereal Co., Toronto.
" 10	"	57114	Rehder & Co., Paris, Ont.	¼ "	10	.....	Unknown
" 14	"	57115	Jno. P. Brown, Dunnville, Ont.	¼ "	10	.....	Balfour, Smye & Co., Hamilton.
" 14	"	57116	J. A. Bicknell, Dunnville, Ont.	¼ "	8	.....	Unknown
" 17	"	57117	James Foley, 21 King St., St. Catharines.	¼ "	8	Unknown	.....
" 17	"	57118	Bradley, Nickolls, Ellis & St. Clair, Niagara Falls.	¼ "	10	.....	Unknown
" 18	"	57119	A. Hess, Hess and Market Sts., Hamilton.	¼ "	10	....	.....
" 19	"	57120	D. J. Donovan, Hunter and Walnut Sts., Hamilton.	¼ "	10	F. F. Dalley Co., Ltd., Hamilton.	.....
DISTRICT OF WINDSOR—							
Mar. 3	Mustard	47948	Bradley & Son, Chatham, Ont.	3 pkgs	30	I. X. L. Spice Mills, London, Ont.	..
" 3	"	47949	Alfred Deloge, Chatham, Ont.	¾ lb.	20	....	Dalley Co., Hamilton.
" 3	"	47951	Jas. Paul, Chatham, Ont.	3 pkgs	45	Keens, London, Eng.	....
" 3	"	47952	J. D. Stark, Chatham, Ont.	¾ lb.	30	.....	F. F. Dalley Co., Hamilton.
" 4	"	47954	Wm. Anderson, Chatham, Ont.	3 pkgs	45	Keens, London, Eng.	.....
" 4	"	47956	H. A. Andrew, Chatham, Ont.	¾ lb.	....	.....	Pure Gold Mfg. Co., Toronto.
" 5	"	47971	Wm. Burnie, Windsor, Ont.	¾ "	25	Unknown	.....
" 5	"	47975	A. St. Denis, Windsor, Ont.	¾ "	30	Gorman Eckert Co., London, Ont.	.....
" 6	"	47981	Laing & Moore, Essex.	3 pkgs	30	Keens, London, Eng.	.....
" 6	"	47982	A. Raines, Essex.....	¾ lb.	22	Unknown.....	.....

SESSIONAL PAPER No. 14

MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.					
	p. c.				
....	2·6	42·5	Wheat Starch, turmeric. . .	57019	
....	4·8	11·2	" "	57020	

H. J. DAGER, ACTING INSPECTOR.

....	2·6	36·8	Wheat Starch..... .	57111	
.. ..	5·1	Traces.	Turmeric	57112	
....	2·7	45·6	Wheat Starch. "	57113	
Sample from a tin labelled Pure Mustard.	1·9	46·8	" "	57114	
"Feather" quality.....	4·8	42·5	" "	57115	
....	2·6	48·7	" "	57116	
. ...	2·3	45·0	" " .	57117	
Labelled "Pure" Mustard.	1·6	53·7	" "	57118	
In stock purchased from previous owner.	4·7	Traces.	....	57119	
.. ..	1·0	" ..	Wheat Starch, turmeric.	57120	

JNO. TALBOT, INSPECTOR.

"Sweetheart" Brand ..	2·8	34·9	Wheat starch, turmeric.	47948	
Durham Mustard.....	2·8	37·5	Wheat starch, traces turmeric ..	47949	
.. ..	4·1	11·8	Small amount wheat starch....	47951	
Labelled Dalley's Pure Mustard.	4·6	10·0	Small amount wheat starch, turmeric.	47952	
....	3·9	11·8	Small amount wheat starch ..	47954	
....	1·7	49·3	Wheat starch, turmeric	47956	
....	3·2	33·1	" "	47971	
....	2·6	46·8	" "	47975	
.. ..	4·0	15·0	Wheat starch	47981	
.. ..	2·7	51·8	Wheat starch, turmeric.....	47982	

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF MANITOBA—							
1913.							
Feb. 24	Mustard	48845	Blue Ribbon Ltd., Winnipeg.	¾ lb.	31	Vendors	
" 24	"	48846	Campbell Bros. & Wilson, Winnipeg.	¾ "		Unknown	Unknown
" 25	"	48847	The Dyson Co., Winnipeg.	¾ "		G. S. Dunn & Co., Hamilton.	Manufacturers
" 25	"	48848	The White Star Mfg. Co., Winnipeg.	3 pkgs	45	Vendors	
" 26	"	48850	The Gold Standard Mfg. Co., Winnipeg	3 "			
Mar. 4	"	48851	Moffett & Douglas Selkirk Ave., Winnipeg.	3 "	45		
" 4	"	48852	S. Elliott & Co., Main St. N., Winnipeg.	3 "	45		
" 4	"	48853	D. Campbell, Main St. N., Winnipeg.	3 "	45		
" 11	"	48854	T. J. Acheson & Son, Morden.	3 "	45		
" 13	"	48865	J. B. Coyle, Winnipeg.	3 "	45		
DISTRICT OF ROCKY MOUNTAINS—							
Mar. 4	Mustard	49832	Star Grocery, Nelson, B.C.	¾ lb.	40	J. & J. Coleman, London, Eng.	
" 4	"	49833	" "	¾ "	40	Climax Mfg. Co., Vancouver, B.C.	
" 4	"	49837	Hudson's Bay Co., Nelson, B.C.	¾ "	25	J. & J. Coleman, London, Eng.	
" 4	"	49838	Christie & Benson, Nelson, B.C.	3 tins.	40	Empress Mfg. Co., Vancouver, B.C.	
" 4	"	49842	J. A. Irving & Co., Nelson, B.C.	¾ lb.	30	" "	
" 7	"	49843	Morrin, Thompson & Co., Phœnix, B.C.	¾ "	30	Kelly, Douglas & Co., Vancouver, B.C.	
" 7	"	49844	" "	3 tins.	60	J. & J. Coleman, London, Eng.	
" 17	"	49861	J. McIntyre & Son, Revelstoke, B.C.	¾ lb.	30	Kelly, Douglas & Co., Vancouver, B.C.	
" 17	"	49866	L. C. Masson, Revelstoke, B.C.	3 tins.	45	Oriental Mills, Vancouver, B.C.	
April 7	"	49872	Polson Mercantile Co., Enderby, B.C.	¾ lb.	30	Empress Mfg. Co., Vancouver, B.C.	
DISTRICT OF VANCOUVER—							
Mar. 11	Mustard	53466	H. A. Edgett & Co., Vancouver, B.C.	¾ lb.	30	Keens, London, Eng.	
" 12	"	53467	Gruchy & Carlaw, 5th Ave. and Granville, Vancouver, B.C.	¾ "	30	" "	
13	"	53468	T. Russell, 444 Pender St., Vancouver, B.C.	3 tins.	45	Coleman's Ltd., London, Eng.	

SESSIONAL PAPER No. 14

MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Total Ash.	Starch (by Acid inversion.)	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
A. C. LARIVIERE.	p. c.				
.....	3·6	11·2	Small amount wheat starch, turmeric.	48845	
.....	1·7	43·1	Wheat starch, turmeric.....	48846	
.....	5·5	Traces..	Traces wheat starch, turmeric..	48847	
"White Star.".....	3·9	10·0	Traces wheat starch, traces turmeric.	48848	
"Gold Standard."	4·4	Traces..	No foreign starch present.....	48850	
"Keens.".....	4·1	9·3	Traces wheat starch.....	48851	
"	4·1	8·7	"	48852	
"	4·0	15·0	Small amount wheat starch ..	48853	
"	4·0	16·8	" " ...	48854	
"	3·9	13·1	" "	48865	
THOS. PARKER, INSPECTOR.					
.....	3·9	11·8	Wheat Starch. Turmeric. ...	49832	
.....	3·3	27·5	" "	49833	
Keens Mustard, 2nd quality.	2·9	26·8	" "	49837	
.....	4·9	Traces..	.....	49838	
.....	4·2	" ..	.....	49842	
"Columbia".....	5·7	41·2	Wheat Starch. Turmeric.....	49843	
.....	4·0	15·0	" "	49844	
"Nabob"	5·0	46·2	" "	49861	
"Oriental".....	3·8	37·5	" "	49866	
.....	3·9	13·4	"	49872	
J. F. POWER, INSPECTOR.					
2nd quality.....	2·7	29·3	Wheat Starch. Turmeric.....	53466	
"	2·6	45·6	"	53467	
.....	3·9	8·7	Small amount Wheat Starch ..	53468	

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF VANCOUVER—							
1913.							
Mar. 13	Mustard	53469	G. F. Cowley, 544 Georgia St., Vancouver, B.C.	½ lb.	30	Keens, London, Eng.	
" 14	"	53470	Kelly's Grocery, 2333 Main St., Vancouver, B.C.	¾ "	30	Unknown	
" 14	"	53471	Mills & McAdam, Kitsilano, Vancouver, B.C.	½ "	30	Keens Ltd., London, Eng.	
" 22	"	53472	David Spencer, Ltd., Vancouver, B.C.	¾ "	30	"	"
" 22	"	53473	Dominion Grocery, Abbott St., Vancouver, B.C.	½ "	30	"	"
" 22	"	53474	F. Filion, Carrall St., Vancouver, B.C.	½ "	30	Empress Mfr. Co., Vancouver, B.C.	
" 28	"	53475	C. A. Welsh, New Westminster, B.C.	3 tins.	40	Keens Ltd., London, Eng.	
DISTRICT OF VICTORIA—							
Mar. 14	Mustard	53546	Acton Bros., 1317 Douglas St., Victoria, B.C.	¾ lb.	45	J. J. Colman, London, Eng.	
" 14	"	53548	Fenerty Bros., Oak Bay Junction, Victoria, B.C.	¾ "	45	"	"
" 14	"	53550	Wm. Marshall, Stanley Ave. and Fort St., Victoria, B.C.	¾ "	45	"	"
" 18	"	53552	Copas & Young, 631 Fort St., Victoria, B.C.	¾ "	45	Keen Robertson Co., Ltd., London, Eng.	
" 18	"	53554	Harrison & McDonald, 1218 Douglas St., Victoria, B.C.	¾ "	30	"	"
" 18	"	53557	Dixi H. Ross Co., 1317 Govt. St., Victoria, B.C.	¾ "	45		
" 18	"	53558	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	1½ "	30	McLaren Cheese Co., Ltd., Toronto.	
" 18	"	53559	H. O. Kirkham, 741 Fort St., Victoria, B.C.	1½ "	75	Unknown	
" 19	"	53561	W. A. Jameson Coffee Co., 75 Broughton St., Victoria, B.C.	1½ "	30	G. S. Dunn & Co., Hamilton.	
" 19	"	53563	Pioneer Coffee and Spice Mills, 641 Pembroke St., Victoria, B.C.	1½ "	20	"	"

SESSIONAL PAPER No. 14

MUSTARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Starch (by Acid Inversion.)	Microscopical Examination.		
Concluded.					
	p. c.				
2nd quality	2·7	33·7	Wheat Starch	53469	
"Coleman's" brand	4·1	44·3	"	53470	
2nd quality	2·9	31·2	"	53471	
"	2·8	28·1	"	53472	
"	3·0	43·7	"	53473	
	2·8	33·7	"	53474	
This is an admixture in which no injurious ingredient is used.	4·1	13·7	"	53475	

D. O'SULLIVAN, INSPECTOR.

Colman's	4·0	Traces	Traces wheat starch, no turmeric.	53546	
"	4·0	11·2	Small amount wheat starch, turmeric.	53548	
	4·0	12·5	Small amount wheat starch	53550	
	4·3	Traces		53552	
Keens	2·8	34·3	Wheat starch, turmeric	53554	
Farrow's A. I	4·1	6·8	" "	53557	
	3·2	8·0	Turmeric	53558	
Durham	1·7	56·2	Wheat starch, turmeric	53559	
	4·9	14·3	Traces wheat starch, turmeric	53561	
	1·4	60·0	Wheat starch, turmeric	53563	

APPENDIX O

BULLETIN No. 272—LARD.

OTTAWA, November 18, 1913.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I have the honour to present a report upon 182 samples of lard, as purchased throughout Canada in February, March, and April of this year.

The result of analysis may be summarized as follows:—

	Samples.
Genuine	169
Contain excess water	3
Doubtful	1
Adulterated	8
Sold as compound	1
Total	182

Adulteration consists in all cases, of added foreign fat, of vegetable origin. This addition is not harmful to health, but constitutes adulteration under Section 3 (b) inasmuch as "an inferior or cheaper substance has been substituted wholly or in part for the article."

The excess of water in three samples is so slightly above the permitted limit (1 per cent) that I do not think it necessary to declare the samples adulterated except in a technical sense.

One sample I regard as doubtful (No. 53485) because of the high iodine number. This, however, while justly giving rise to doubt of genuineness, is yet insufficient to furnish conclusive proof of adulteration.

The sample sold as compound, should not have been accepted by our inspector.

A collection of samples of lard, and of substitutes for lard, is now in hand. On reporting this collection at a later date, I shall take occasion to review in greater detail, the matter of lard, and substitutes therefor, as now found on the Canadian market.

I beg to recommend publication of this report as Bulletin No. 272.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 272—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
Mar. 12	Lard	46916	P. T. Shea, Halifax, N.S.	1½ lb.	30	Morrell & Co., Ottuma, U.S.A.	Mfrs
" 12	"	46917	Wentzells Ltd., Halifax, N.S.	1¾ "	23	Swift & Co., Chicago, U.S.A.	"
" 12	"	46918	G. Hirschfeld, Halifax, N.S.	1¼ "	25	Vendor	
" 12	"	46919	T. Spry, Halifax, N.S.	1¾ "	25	"	
" 13	"	46920	A. L. Doyle & Co., Halifax, N.S.	1¾ "	25	Vendors	
" 13	"	46921	J. A. Leaman & Co., Halifax, N.S.	1¾ "	25	"	
" 13	"	46922	Dillon Bros., Halifax, N.S.	1¼ "	25	F. W. Fearman, Hamilton, Ont.	Mfr
" 19	"	46923	DeWolf & Lamont, Kentville, N.S.	1¼ "	23	Swift & Co., Chicago, U.S.A.	R. B. Seeton & Co., Halifax, N.S.
" 22	"	46924	S. Thomson, Dartmouth, N.S.	1¾ "	25	F. W. Fearman & Co., Hamilton, Ont.	Mfrs
" 24	"	46925	Truro Market, Truro, N.S.	1¾ "	25	Wm. Davies, Toronto.	Mfr
DISTRICT OF PRINCE EDWARD ISLAND—							
Mar. 4	Lard	46369	R. T. Maddigan, Charlottetown, P.E.I.	1½ lbs.	30	Davies & Fraser, Ch'Town. P.E.I.	
" 5	"	46370	S. Beaton, Bonshaw, P.E.I.	1½ "	30	" "	
" 5	"	46371	Lord Co., Cape Traverse, P.E.I.	2 "	36	The Wm. Davies Co., Ltd., Toronto.	
" 6	"	46372	P. D. Hogan, Tyrone, P.E.I.	1½ "	30	Davies & Fraser, Ch'Town, P.E.I.	
April 25	"	46373	J. A. Hynes, Kensington, P.E.I.	1½ "	30	Morris & Co., Chicago.	
" 25	"	46374	James Kennedy, Kensington, P.E.I.	1½ "	30	Patrick McGuire, Clinton, P.E.I.	
" 25	"	46375	Sinclair & Stewart, Summerside, P.E.I.	1½ "	27	Mathews, Laing, Ltd., Montreal.	
DISTRICT OF NEW BRUNSWICK—							
Feb. 25	Lard	50545	John Hopkins, St. John, N.B.	1½ lbs.	30	Vendor	
" 25	"	50546	F. S. Williams Co., Ltd., St. John, N.B.	2 "	40	Gunn's, West Toronto.	
Mar. 13	"	50547	G. B. Taylor, St. John, N.B.	1½ "	30	Vendor	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer. Reading at 40°C.	Iodine Number (Hanus).		
R. J. WAUGH, INSPECTOR.						
	p. c.					
	Traces.		51		46916	Genuine.
	"		51·5		46917	"
	"		50·5		46918	"
	"		50		46919	"
	"		49·5		46920	"
	"		51		46921	"
	"		51·5		46922	"
	"		52		46923	"
	"	Pink	52	58·71	46924	"
	"		52		46925	"
WM. A. WEEKS, INSPECTOR.						
	Traces.		49		46369	Genuine.
	"		49·5		46370	"
	"		51		46371	"
	"		52		46372	"
	"		51		46373	"
	1·33		50·5		*46374	Excess water.
	†2·97					
	Traces.	Deep pink	51·5	61·60	46375	Genuine.
J. C. FERGUSON, INSPECTOR.						
	Traces.	Crimson	51	57·97	50545	Genuine.
"Maple Leaf" Brand	"		51·5		50546	"
	"		51·5		50547	"

* Somewhat mouldy. † Duplicate sample.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NEW							
1913.							
Mar. 13	Lard	50548	Slipp & Flewelling St. John, N.B.	1½ lbs.	30	Vendors	
" 13	"	50549	S. E. Rice, St. John, N.B.	1½ "	30	F. W. Fearman Co., Hamilton.	
April 10	"	50550	P. H. McKenna, St. Stephen, N.B.	1½ "	25		G. E. Barbour Co., Ltd., St. John, N.B.
" 15	"	50551	J. Boyle & Son, Fredericton, N.B.	1½ "	30	Vendors	
" 23	"	50552	King & Asbell, Sussex, N.B.	1½ "	30	Matthews-Laing. Toronto, Ont.	
" 23	"	50553	D. A. McBeath, Moncton, N.B.	1 cake	40	Davis & Fraser, Charlottetown, P.E.I.	
" 23	"	50554	The 2 Barkers Ltd., Moncton, N.B.	1 "	26	Morris & Co., Chicago.	
Mar. 12	"	50600	John Hopkins, St. John, N.B.	1 "	30	Vendor	
April 16	"	55901	C. B. Snow, Woodstock, N.B.	1 "	27	Gunns Ltd., West Toronto.	
DISTRICT OF QUEBEC—							
Feb. 24	Lard	37128	Benjamin Cepeault, 68 Rue Cremasie, Montcalmville.	1½ lbs.	30	O'Keef, Chatham, Ont.	J. B. Reneaud & Cie, Quebec.
" 25	"	37129	F. Racine, 66 Rue Cremasie, Montcalmville.	1½ "	30	" "	Emond & Cote, Quebec.
" 26	"	37130	Joseph Brulot, 11 Chemin Ste. Foie.	1½ "	30	Matthews-Laing Co.	Octave Jacques, Quebec.
" 27	"	37131	Jos. Bédard, 113, 2me Rue Stadacona.	1½ "	33	Swift Co., Winnipeg.	Gagnon & Garent, Quebec.
" 27	"	37132	Françcis Cliche, 4me, 130 Rue Stadacona.	1½ "	30	F. M. Sinclair, Cedar Rapids, Iowa.	Octave Jacques, Quebec.
Mar. 3	"	37133	F. Grenier, 50 Rue Scot, Quebec.	1½ "	33	Boulet & Lavoie, Quebec.	Manufacturers
" 3	"	37134	F. Delisle, 60 Rue Scot, Quebec.	1½ "	36	O'Keefe & Drew, Chatham, Ont.	Emond & Cote, Quebec.
" 3	"	37135	Jos. F. Goslin, 50 Rue D'Orchester, Quebec.	1½ "	30	F. M. Sinclair Co., London.	Manufacturers
" 4	"	37136	Charles Martel, 49 Rue Artillerie, Quebec.	1½ "	30	E. M. Sinclair Ltd., Toronto.	Alfred Dombroski, Quebec.
" 4	"	37137	A. Roy, 112½ Rue Scot, Quebec.	1½ "	30	Harris Abattoir Cedar Rapids.	J. B. Reneaud & Cie, London.
" 5	"	37188	J. A. Martel, 155 Rue St. Patrick, Quebec.	1½ "	30	F. M. Sinclair, Cedar Rapids.	Octave Jacques. Quebec.
" 5	"	37189	Ernest Tessier. 121 Rue Scot, Quebec.	1½ "	30	" "	D. D. Drolet, Quebec.
"	"	37190	W. Gagnon, 112 Rue Artillerie, Quebec.	2 "	40	" "	N. Rioux & Cie, Quebec.

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer. Reading at 40°c.	Iodine Number (Hanus).		
BRUNSWICK—*Concluded.*						
	p. c.					
... .	Traces..	.....	51	.....	50548	Genuine.
....	0·39	... .	53	.....	50549	"
Swift's "Silver Leaf," Lard.	Traces..	.....	51	.....	50550	"
....	" ..	....	50	.....	50551	"
....	" ..	Crimson....	51	59·06	50552	"
....	" ..	....	50·5	.....	50553	"
"Supreme Brand.".....	" ..	.....	52	.....	50554	"
....	" ..	....	51·5	.....	50600	"
....	" ..	Deep pink.	52	61·20	55901	"
F. X. W. E. BELAND, INSPECTOR.						
....	Traces..	... ...	52	... .	37128	Genuine.
....	"	... ..	51·5	... ...	37129	"
....	" ..	.. . .	52	.....	37130	"
....	" ..	.. ....	52	.....	37131	"
....	" ..	.. ...	51	.....	37132	"
....	" ..	.. ..	51·5	.....	37133	"
. ...	" .	.....	51·5	.....	37134	"
....	" ..	.. ..	51	.....	37135	"
.....	" ..	.. . .	51	.....	37136	"
.. ..	" ..	....	51·5	.....	37137	"
....	" ..	.....	51·5	.....	37188	"
... .	" ..	.....	51	.....	37189	"
.. . .	..	.....	52·5	.....	37190	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF							
1913.							
Mar. 5	Lard	37191	J. Noël Rondeau, 6 Rue Lachevrotière, Quebec.	1½ lb.	30	O'Keefe & Andrews, Co., Granton, Ont.	J. B. Reneaud & Cie., Quebec.
" 5	"	37192	Alphonse Cote, 381 Rue St. Jean, Quebec.	1½ "	30	Matthews, Toronto.	Emond & Coté, Quebec.
DISTRICT OF THREE RIVERS—							
Mar. 17	Lard	57214	Louis Enos, St. Félix de Valois.	3 lbs.	45	Laing, Montreal	
" 17	"	57217	G. H. Read, St. Félix de Valois.	3 "	45	National Packing Co., Quebec.	
" 17	"	57222	Thermas Guibord, St. Félix de Valois.	3 "	60	Davies Co., Montreal.	
" 17	"	57223	Jos. Mousseau, St. Félix de Valois.	3 "	54	Maple Leaf, West Toronto.	
" 18	"	57227	Ernest Asselin, St. Félix de Valois.	3 "	51	W. Davies, Montreal.	
" 19	"	57231	Esdras Asselin, St. Félix de Valois.	3 "	60	W. Davies Co., Montreal.	
" 19	"	57234	Louis Bellerose, St. Félix de Valois.	3 "	54	" "	
" 22	"	57238	C. Barrette, Joliette	3 "	54	Laing, Montreal	
" 22	"	57243	Magnan Fréres, Joliette.	3 "	54	" "	
" 24	"	57248	Wilfrid Brissette, St. Félix de Valois.	3 "	54	W. Davies Co., Montreal.	
DISTRICT OF EASTERN TOWNSHIPS—							
Mar. 10	Lard	1501	Cimeon Gouin, Victoriaville.	1 lb.	16		L. Chaput Fils et Cie., Montreal.
" 12	"	1502	J. E. Onellette, Beauceville.	5 "	90	Fowler's Canadian Co., Ltd., Hamilton	
" 12	"	1503	P. F. Renaud, Beauceville.	3 "	58	The Hovey Bros., Packing Co., Sherbrooke.	
" 17	"	1504	W. S. Samson & Son, Windsor Mills.	1 "	17	Matthews Laing Ltd., Montreal.	
" 18	"	1505	E. J. Planche et Cie., Cookshire.	1 pail	60	The Hovey Bros., Packing Co., Sherbrooke.	
" 19	"	1506	A. Lachance, Sherkrooke.	3 lbs.	55	Vendor	
April 16	"	1507	Geo. E. Blais, Danville.	5 "	90	Matthews Laing Ltd, Montreal.	
" 18	"	1508	J. E. Alby, Drummondville.	1 "	13	The N. K. Fairbanks Co., Montreal.	

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer. Reading at 40°c.	Iodine Number (Hanus).		
QUEBEC—*Concluded.*						
	p. c.					
	Traces..		52		37191	Genuine.
Pure lard	"		52		37192	"
DR. V. P. LAVALLÉE, INSPECTOR.						
	0·25	Pink	50	63·85	57214	Genuine.
	Traces..		52		57217	"
	"		51		57222	"
	0·59		51		57223	"
	Traces..		51·5		57227	"
	"		52		57231	"
	"		52		57234	"
	0·63	Pink	52	61 77	57238	"
	Traces..	"	52	62 27	57243	"
	"		52		57248	"
J. C. ROULEAU, INSPECTOR.						
	Traces..		51		1501	Genuine.
Labelled pure lard	"		50		1502	"
	"		50		1503	"
		Faint pink.	51	56 17	1504	"
			52		1505	"
	"		51 5		1506	"
	"	Faint pink	52 5	55 57	1507	"
Labelled compound	"	Crimson	61	85 14	1508	Labelled compound

BULLETIN No. 272—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN							
1913.							
April 21	Lard	1509	R. J. Buckle, Sutton	3 lbs.	60	Alex. Ames & Sons, Sherbrooke.	
" 25	"	1510	L. Gurdreau, St. Hyacinthe.	1 "	18	M. Lussier, St. Hyacinthe.	
DISTRICT OF MONTREAL—							
Feb. 24	Lard	51221	Jos. Lacombe, 677 Ont. St. Maisonneuve.	1½ lbs.	23	Swifts Packing and Prov. Co.	
" 24	"	51222	J. Guay, 404 Orleans Ave., Maisonneuve.	1½ "	30	Swifts Canadian Co., Montreal.	
" 24	"	51223	V. Levac, 700 Adams St., Maisonneuve.	1½ "	25	Swifts Packing and Prov. Co.	
" 25	"	51224	P. J. Guay, 101 Fourth Ave., Viauville.	1½ "	27	Vendor.	
" 25	"	51225	John Heaney, Lafontaine St., Maisonneuve.	1½ "	27	Matthews-Laing, Ltd., Montreal.	
" 25	"	51226	J. O. Maranda, 215 Ont. St. Maisonneuve	1½ "	27	Swifts Packing and Prov. Co.	
" 25	"	51227	M. A. Payette, 217 Ont. St., Maisonneuve.	1½ "	27	Whyte Packing Co., Ltd., Montreal.	
" 25	"	51228	D. Rochan, 525 Ont. St., Maisonneuve.	1½ "	27	Swifts Packing and Prov. Co.	
" 25	"	51229	H. Vallee, 2246 Ont. St. E., Montreal.	1½ "	27	Gunns Ltd., Montreal.	
" 25	"	51230	A. Asselin, 2026 Ont. St. E., Montreal.	1½ "	27	Swifts Packing and Prov. Co.	
Mar. 3	"	51290	Phaneuf Carriere, 76 Duquette St., Montreal.	1 pail	2.75	" "	
DISTRICT OF VALLEYFIELD—							
Mar. 13	Lard	51301	W. Plante, Valleyfield, Que.	1½ lbs.	27	Swifts Canadian Co., Ltd.	
" 13	"	51302	W. Beaudry, Valleyfield, Que.	1½ "	30		
" 13	"	51303	The Industrial Co-Op Society Ltd., Valleyfield, Que.	1½ "	30	Wm. Davies Co., Ltd., Montreal.	
" 13	"	51304	J. A. Major, Valleyfield, Que.	1½ "	30	Fowler's Canadian Co., Ltd.	
" 19	"	51305	E. Z. Labrosse, Vankleek Hill, Ont.	2 "	40	Matthews-Laing Ltd.	
" 19	"	51306	John Wilson, Vankleek Hill, Ont.	1½ "	30		
" 20	"	51307	F. X. Bertrand, Hawkesbury, Ont	1½ "	30		

LARD

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer. Reading at 40°c.	Iodine Number (Hanus).		
TOWNSHIPS—*Concluded.*						
Labelled Pure Lard	Traces..		51·5		1509	Genuine.
.....	"		51		1510	"
J. J. COSTIGAN, INSPECTOR.						
Labelled Swift's Pure Lard.	0·47	Deep red....	54·1	81·55	51221	Adulterated with foreign fat.
"Silver Leaf" Brand...	Traces..		50·5		51222	Genuine.
Labelled Swift's Pure Lard.	0·05	Deep red....	53	80·78	51223	Adulterated with foreign fat.
.....	Traces..		50		51224	Genuine.
.....	"	Deep pink..	51	59·10	51225	"
Labelled Swift's Pure Lard.	0·12	Deep red....	53	82·69	51226	Adulterated with foreign fat.
.....	Traces..		51·5		51227	Genuine.
Labelled Swift's Pure Lard.	0·09	Deep red....	52·7	80·67	51228	Adulterated with foreign fat.
.....	Traces..		51		51229	Genuine.
Labelled Swift's Pure Lard.	0·03	Deep red....	53	82·35	51230	Adulterated with foreign fat.
Sold for Pure Lard.....	0·09	" ...	53	80·41	51290	" "
J. J. COSTIGAN, ACTING INSPECTOR.						
.....	Traces..		52		51301	Genuine.
.....	"		52		51302	"
.....	"		51·5		51303	"
.....	"		52		51304	"
.....	"	Deep pink..	52	60·85	51305	"
.....	"	Pink.....	51·5	56·05	51306	"
.....	"	Deep pink..	52	59·18	51307	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher
							DISTRICT OF
1913.							
Mar. 24	Lard	51308	D. J. McDonald, Alexandria, Ont.	2 lbs.	40	Matthews-Laing Ltd.	
" 21	"	51309	John Boyle, Alexandria, Ont.	1½ "	30		
" 24	"	51310	" "	2 "	40	Swift's Canadian Co. Ltd.	
							DISTRICT OF OTTAWA—
Feb. 21	Lard	51701	D. J. Gillies, Cornwall.	1½ lbs.	27	Armour Co., Ogdensburg, U.S.	Manufacturers
" 21	"	51702	Fawthrop Bros., Cornwall.	1½ "	26	Gunn's Ltd., Toronto.	"
" 22	"	51704	The City Grocery, Carleton Place.	1½ "	30	Matthews-Laing Ltd., Ottawa.	"
" 22	"	51705	" "	1 "	18	Gunn's Ltd., Toronto.	"
" 22	"	51706	R. D. Carmichael, Carleton Place.	2 "	36	Swift's Canadian Co., Ltd.	"
" 24	"	51707	A. E. Thomas, Arnprior.	21 ozs.	23	Fowler's Canadian Co., Hamilton, Ont.	"
" 24	"	51708	A. Murphy, Arnprior.	1 lb.	18	Matthews-Laing Ltd., Montreal.	"
" 24	"	51709	T. McCormick, Arnprior.	1½ "	26	Swift's Packing and Prov. Co., Chicago, St. Louis and New York.	"
" 27	"	51710	J. Mundy, St. Patrick St., Ottawa.	1½ "	26	Fowler's Canadian Co., Ltd., Hamilton.	"
Mar. 1	"	51765	Jos. Martel, Hull, Que.	1½ "	26	Matthews-Laing Ltd., Ottawa.	"
							DISTRICT OF KINGSTON—
Mar. 3	Lard	46584	H. C. Hampton, Belleville.	1½ lbs.	27	Gunn's, Ltd., Toronto.	
" 3	"	46585	S. R. Artis, Belleville	1½ "	27		J. Sloan, Belleville
" 3	"	46586	W. H. Lanning, Belleville.	1½ "	27	Gunn's, Ltd., Toronto.	
" 3	"	46587	W. Davies, Belleville	2 "	10	W. Davies Co., Toronto.	
" 3	"	46588	E. A. Kellaway, Belleville.	1½ "	27	" "	
Feb. 27	"	50793	W. J. Lee, Kingston	1½ "	27	Morris Co., Chicago.	
" 27	"	50794	W. J. Arnil, Kingston.	1½ "	27	Geo. Matthews, Peterborough.	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Water.	Halphen Test.	Butyro Refractometer. Reading at 40°c.	Iodine Number (Hanus).	No. of Sample.	Remarks and Opinion of the Chief Analyst.
VALLEYFIELD—*Concluded.*						
	p. c.					
	Traces	Deep pink	51·5	58·82	51308	Genuine.
Rose Brand	"	"	50·5	...	51309	"
Silver Leaf Brand	0·16	...	51	...	51310	"
J. A. RICKEY, INSPECTOR.						
	Traces	...	51·5	...	51701	Genuine.
	"	...	51	...	51702	"
Matthews Pure Lard	"	Pink	50·5	53·42	51704	"
Gunn's Pure Lard "Maple Leaf" Brand.	"	...	52	...	51705	"
Silver Leaf Brand, Guaranteed absolutely pure.	"	...	53	...	51706	"
"Imperial" Pure Lard	"	...	52	...	51707	"
	"	Faint pink	52	60·46	51708	"
Labelled pure lard	0·09	Deep red	53	81·04	51709	Adulterated with foreign fat
"Imperial" Brand	Traces	...	52	...	51710	Genuine.
Pure Lard	Traces	Deep pink	52·5	59·09	51765	"
JAS. HOGAN, INSPECTOR.						
	Traces	...	51	...	46584	Genuine.
	"	...	51·5	...	46585	"
	"	...	50·5	...	46586	"
	"	...	51	...	46587	"
	"	...	51	...	46588	"
	"	...	52	...	50793	"
	"	...	51·5	...	50794	"

BULLETIN No. 272—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF							
1913.							
Feb. 27	Lard	50795	Anderson Bros., Kingston.	1½ lbs.	30	Vendors	
" 27	"	50796	W. Davies, Kingston	2 "	40	Vendor	
" 27	"	50797	A. Maclean, Kingston	1½ "	25	"	
DISTRICT OF TORONTO—							
Feb. 27	Lard	57001	Mrs. J. Crapper, 231 George St., Toronto.	1½ "	30		C. H. Rudd, Toronto.
" 28	"	57002	B. Sigstone, 130 River St., Toronto.	1½ "	26		J. A. McLean Produce Co., Ltd., Toronto.
" 28	"	57003	J. P. Turner & Son, 185 Sumach St., Toronto.	1½ "	27	The Swift's Canadian Co. Ltd., Toronto.	
Mar. 4	"	57004	J. W. Laister, 174 Wilton Ave., Toronto.	1½ "	30	Vendor	
" 4	"	57005	E. Gent, 461 Parliament St., Toronto.	1½ "	28		Wm. Regan, Ltd., Toronto.
" 4	"	57006	W. M. Trewin, 768 Bathurst St., Toronto.	1½ "	30		Maciver Bros., Toronto.
" 4	"	57007	E. T. Brittain, Lippincott and Lennox Sts., Toronto	1½ "	30	Gunn's, Ltd., Toronto.	
" 5	"	57008	R. Ponney, 195 Danforth Ave., Toronto.	1½ "	27		Unknown
" 5	"	57009	W. J. O'Neill, 637 Dundas St., Toronto.	1½ "	25	Gunn's, Ltd., Toronto.	
" 6	"	57010	Guile Bros., 312 Queen St. East, Toronto.	1½ "	27	Vendors	
" 6	"	57056	R. Starks, 1954 Queen St. East, Toronto.	1½ "	29	F. W. Fearman & Co., Hamilton.	
" 7	"	57057	Yonge & Sons, 320 Royce Ave., Toronto.	1½ "	27		F. W. Humphrey, Toronto.
" 12	"	57058	E. F. Churchill, 1479 Yonge St., Toronto.	1½ "	28	F. W. Fearman & Co., Ltd., Toronto.	
DISTRICT OF HAMILTON—							
April 9	Lard	57101	Misner Bros., 407 Colborne St. East, Brantford.	1½ "	30	Matthew-Laing Co., Brantford.	
" 9	"	57102	R. M. Copeland, 52 Port St., Brantford.	1½ "	26	F. W. Fearman Co., Ltd., Hamilton.	
" 10	"	57103	MacQueen & Co., Paris.	1½ "	27		Jas. Lumbers & Co., Toronto.
" 10	"	57104	Geo. Pirie, Lynden.	1½ "	27	Fowler's Canadian Co., Hamilton.	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer. Reading at 40°c.	Iodine Number (Hanus).		
KINGSTON—*Concluded.*						
	p. c.					
.....	Traces..	Pink tinge..	51	56 23	50795	Genuine.
.....	" ..	.....	51·5	.....	50796	"
.....	" ..	.....	51	.....	50797	"
H. J. DAGER, INSPECTOR.						
Swift's "Silver Leaf" Lard.	Traces..	.....	51	.....	57001	Genuine.
.....	" ..	.....	50·5	.....	57002	"
"Silver Leaf" Lard ...	" ..	.....	51	.....	57003	"
.....	" ..	.....	52·4	.....	57004	"
.....	1·58	.....	52	.....	57005	Excess water, slight.
.....	Traces..	.....	50	.....	57006	Genuine.
.....	" ..	.....	50	.....	57007	"
Swift's "Silver Leaf" Lard.	" ..	.....	49·5	.....	57008	"
"Maple Leaf" Brand...	" ..	.....	51	.....	57009	"
.....	" ..	Pink.....	51	57·56	57010	"
.....	" ..	.....	50	.....	57056	"
.....	" ..	.....	51·5	.....	57057	"
.....	" ..	Pink..	50·5	60·34	57058	"
H. J. DAGER, ACTING INSPECTOR.						
.....	Traces..	.....	50	.....	57101	Genuine.
Labelled "Star Brand" Pure Lard.	" ..	.....	52	.....	57102	"
.....	" ..	.....	52	.....	57103	"
.....	" ..	.....	51·5	.....	57104	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
							DISTRICT OF
1913.							
April 14	Lard	57105	L. Werner, Dunnville	1½ lbs.	30		By a Farmer near Dunnville.
" 14	"	57106	A. G. McDowell, Dunnville.	1½ "	30	Moyer Bros., St. Catherines.	
" 17	"	57107	E. Gander, St. Catherines-	1½ "	25		W. H. Merriman, St. Catherines.
" 23	"	57108	Jas. McQuarrie, 11 King William St., Hamilton.	1½ "	27	The F. W. Fearman Co., Hamilton.	
" 23	"	57109	E. K. Horning, 140 John St. North, Hamilton.	1½ "	27	" "	
" 23	"	57110	Trebilcock & Berry, 301 King St. East, Hamilton.	1½ "	30	Moyer Bros., Ltd., St. Catherines.	
							DISTRICT OF WINDSOR—
Feb. 24	Lard	47932	F. J. Webb, London, Ont.	1½ lbs.	27	Swift's Canadian Co., Toronto.	
24	"	47933	Geo. Jackson, London, Ont.	1½ "	27	Vendor	
24	"	47934	T. Hamlyn, London, Ont.	1½ "	30	"	
24	"	47935	H. A. Schafer, London, Ont.	1½ "	27	Fowler's Canadian Co., Hamilton.	
24	"	47936	F. T. Adams, London, Ont.	1¾ "	28	Vendor	
25	"	47937	H. R. Griffith, London, Ont.	1½ "	30	"	
25	"	47938	Trothan Bros., London East.	1 lb.	15	Vendors	
25	"	47939	Geo. Burn, London East.	3 lbs.	54	Ingersoll Packing Co., Ingersoll.	
25	"	47940	Mitchell & Hopkins.	3 "	54	O'Keefe & Drew. Chatham, Ont.	
25	"	47941	G. B. Drake	3 "	60	Swift's Canadian Co., Toronto.	
							DISTRICT OF MANITOBA—
4	Lard	48855	Moffett & Donglas, Selkirk Ave., Winnipeg.	3 lbs.	55	Swift's Canadian Co., Winnipeg.	Manufacturers
" 4	"	48856	S. Elliott & Co., Main St. N., Winnipeg.	3 "	60	Gordon Ironside Fares Co., Winnipeg.	"
" 4	"	48857	D. Campbell, Main St. N., Winnipeg.	3 "	60	" "	"
" 5	"	48858	J. Paterson, Main St. N., Winnipeg.	3 "	55	Swift's Canadian Co., Winnipeg.	"

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer. Reading at 40°c.	Iodine Number (Hanus).		
HAMILTON—*Concluded.*						
	p. c.					
.....	Traces..	.....	51	.....	57105	Genuine.
.....	" ..	Faint pink..	52	61·89	57106	"
Fowler's Canadian Co., "L. & S." Brand, Pure Lard.	" ..	.....	52	.....	57107	"
.....	" ..	.....	52	.....	57108	"
.....	" ..	.....	52	.....	57109	"
.....	" ..	.....	52	.....	57110	"
JOHN TALBOT, INSPECTOR.						
Labelled Swift's Silver Leaf Lard.	Traces..	Deep pink .	52	59·01	47932	Genuine.
.....	" ..	.....	52	.....	47933	"
.....	" .	.....	51·5	.....	47934	"
Labelled Fowler's Pure Lard.	" ..	.....	52	.....	47935	"
.....	" ..	.....	52	.....	47936	"
.....	" ..	.....	52	.....	47937	"
.....	" ..	.....	52	.....	47938	"
Labelled Ingersoll Pure Lard, "Beaver Brand."	" ..	.....	52	.....	47939	"
Labelled "Diamond" Brand O.K. Pure Lard.	" ..	.....	52·5	.....	47940	"
Labelled "Swift's Silver Leaf" Brand, Pure Lard.	" ..	.....	52·5	.....	47941	"
A. C. LARIVIERE, INSPECTOR.						
"Silver Leaf" Brand. .	Traces..	.....	51	61·43	48855	Genuine.
"Sterling" Pure Lard..	" ..	.....	50	.....	48856	"
.....	" ..	.....	51	.....	48857	"
"Silver Leaf" Brand .	" ..	.....	52	.....	48858	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF							
1913.							
Mar. 5	Lard	48859	W. H. Stone & Co., Main St. N., Winnipeg.	3 lbs.	55	Swift's Canadian Co., Winnipeg.	Manufacturers
" 5	"	48860	J. Smith & Son, Main St. N., Winnipeg.	3 "	55	" "	"
" 6	"	48861	A. J. Bond & Co., St. James, Winnipeg.	3 "	55	" "	"
" 6	"	48862	J. Watson & Co., St. James, Winnipeg.	3 "	55	The Western Packing Co., Winnipeg.	"
" 6	"	48863	Dungan & Hunter, St. James, Winnipeg.	1½ "	30	" "	"
" 6	"	48864	Gibson Gege Co., 534 Notre Dame, Winnipeg.	3 "	55	Gallagher, Holman, Lafrance, Winnipeg.	"
DISTRICT OF ROCKY MOUNTAINS—							
Mar. 4	Lard	49834	Star Grocery, Nelson, B.C.	1 pail	65	Swift's Canadian Co., Edmonton.	
	"	49835	" "	1 "	65	Armour & Co., Chicago.	
" 4	"	49840	Christie & Benson, Nelson, B.C.	1 "	60	P. Burns & Co., Calgary.	
" 4	"	49841	Bell Trading Co., Nelson, B.C.	1 "	65	Armour & Co., Chicago.	
" 7	"	49846	Morrin Thompson & Co., Phœnix, B.C.	1 "	60	Swift's Canadian Co., Edmonton.	
" 7	"	49847	P. Burns & Co., Phœnix, B.C.	1 "	60	P. Burns & Co., Calgary.	
" 13	"	49850	E. F. Rahal, Hosmer, B.C.	1 "	90	T. M. Sinclair Co., Cedar Rapids, Iowa.	
" 13	"	49851	" "	1 "	65	Armour & Co., Chicago.	
" 13	"	49857	M. Lund, Hosmer, B.C.	1 "	65	" "	
" 17	"	49860	C. B. Hume & Co., Revelstoke, B.C.	1 "	65	Swift's Canadian Co., Edmonton.	
" 17	"	49867	L. C. Masson, Revelstoke, B.C.	1 "	65	P. Burns & Co., Calgary.	
Apr. 7	"	49871	Polson Mercantile Co., Enderby, B.C.	1 "	75	Fry Bruhn Co., Seattle.	
" 9	"	49873	A. E. Morgan & Co., Armstrong, B.C.	1 "	65	Swift's Canadian Co., Edmonton.	
" 9	"	49874	J. Fraser, Armstrong, B.C.	1 "	65	Fry Bruhn Co., Seattle.	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer. Reading at 40°c.	Iodine Number (Hanus).		
MANITOBA—*Concluded.*						
	p. c.					
Silver Leaf Brand	Traces		52		48859	Genuine.
" "	"		52		48860	"
	"		52	60 23	48861	"
	"		52·5	55 03	48862	"
	"		53 5	44 30	48863	"
Pure Lard	"		53	45·42	48864	"
THOS. PARKER, INSPECTOR.						
"Silver Leaf"	Traces		52		49834	Genuine.
"Shield"	"		52		49835	"
"Shamrock"	"		52		49840	"
"Simon Pure"	"		51		49841	"
"Silver Leaf"	"		51		49846	"
"Shamrock"	"		52		49847	"
"White Frost"	"		51		49850	"
"Shield."	"		51		49851	"
"Simon Pure"	"		50·5		49857	"
"Silver Leaf"	1·28		51 5		49860	Excess water, slight.
"Shamrock"	Traces		51·5		49867	Genuine.
	"		52		49871	"
	"		52		49873	"
	"		52		49874	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF VANCOUVER				
1913.							
Apr. 24	Lard	53476	Turner's Grocery, Pender St., Vancouver.	1½	lb. 30	Frye & Co., Seattle, U.S.A.	
" 24	"	53477	Dickies Grocery, Hornby St., Vancouver.	1½	" 30	" "	
" 24	"	53478	T. Russell, Pender St., Vancouver.	1½	" 30	Morrell & Co., Seattle, Wash.	
" 24	"	53479	Frank Wright, Seymour St., Vancouver.	1½	" 30	Swift & Co., Winnipeg.	
" 24	"	53480	P. Burns & Co., Granville Market, Vancouver.	1½	" 30	Vendors	
" 25	"	53481	Slater Bros., 860 Granville St., Vancouver.	1½	" 30	P. Burns & Co., Vancouver.	
" 25	"	53482	B. C. Market Co., 920 Granville St., Vancouver.	1½	" 20	Swift's Canadian Co., Winnipeg.	
" 25	"	53483	Murphy & Co., Helmken and Granville Sts., Vancouver.	1½	" 30	Swift's Canadian Co., Vancouver.	
" 25	"	53484	Wm. Crossan, 735 Davie St., Vancouver.	1½	" 30	Swift's Canadian Co., Winnipeg.	
" 25	"	53485	W. H. Walsh Co., Seymour St., Vancouver.	1½	" 30	Frye & Co., Seattle, U.S.A.	
			DISTRICT OF VICTORIA				
Mar. 14	Lard	53544	Acton Bros., 1317 Douglas St., Victoria.	2	lbs. 45	John Morrell & Co., Ottumwa, U.S.	
" 14	"	53547	Fenerty Bros., Oak Bay Junction, Victoria.	2	" 50	Swift's Canadian Co., Winnipeg.	
" 14	"	53549	Wm. Marshall, Stanley Ave. and Fort St., Victoria.	3	" 60	" "	
" 18	"	53551	Copas & Young, 631 Fort St., Victoria.	3	" 60	Frye Bruhn & Co., Seattle, Wash.	
" 18	"	53556	Dixi H. Ross & Co., 1317 Govt. St., Victoria.	3	" 65	Vanc. Prince Rupert Meat Co., Vancouver.	
" 26	"	53567	P. Burns & Co., Ltd., 902 Govt. St., Victoria.	3	" 60		Weederkind & Co., London, Eng.
" 27	"	53568	Vanc. Prince Rupert Meat Co., 1423 Douglas St., Victoria.	3	" 55	Vendors	
" 27	"	53569	L. Goodacre & Sons, Govt. St., Victoria.	3	" 60	Swift's Canadian Co., Winnipeg.	
" 27	"	53570	The Pork Shop, 1116 Blanchard St., Victoria.	3	" 50	" "	
" 28	"	53571	James Adams, Cook and Mears Sts., Victoria.	3	" 60	Frye Bruhn Co., Seattle, Wash.	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer. Reading at 40°c.	Iodine Number (Hanus).		
J. F. POWER, INSPECTOR.						
	p. c.					
.....	Traces	....	50·5	....	53476	Genuine.
	"		50		53477	"
	"		50·5		53478	"
	"		50		53479	"
	"	Pink	51	62·00	53480	
	"	Light pink.	51·5	63·50	53481	"
Jewell Brand	"	"	51	60·01	53482	"
	"		51		53483	"
	"	Crimson	55·5	83·25	53484	Adulterated with foreign fat.
	"	"	52	67·26	53485	Doubtful.
D. O'SULLIVAN, INSPECTOR.						
Morrell's Pure Lard	Traces		52		5354-	Genuine.
"Silver Leaf" Brand	"		52		53547	"
" "	"		52		53549	"
"Wild Rose" Brand	"		51		53551	"
"White Lily" Pure Leaf Lard.	"		52		53556	"
Burn's Shamrock Leaf Brand.	"		51·5		53567	"
White Lily Pure Leaf Brand.	"		52		53568	"
Silver Leaf Brand	"		52		53569	"
" "	"		51		53570	"
Wild Rose Brand	"		51·5		53571	"

APPENDIX P.

BULLETIN No. 273.—GELATIN.

OTTAWA, February 6, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister, Inland Revenue.

SIR,—I have the honour to hand you a report on 161 samples purchased as gelatin, by our inspectors, during June and July of last year.

This is the first systematic examination of gelatin which we have made.

Gelatin as an article of food differs from ordinary glue only in the care employed in its manufacture. Both are the product of treating the so-called collagens of bones, tendons, cartilage, &c., with boiling water.

It goes without saying that in the manufacture of gelatin only carefully selected materials should be employed: no portion of the animal which is filthy or diseased or otherwise disgusting should be used.

The present investigation deals only with gelatin sold as such. It is to be remembered that gelatin enters largely into the varians jelly powders, crystals and blocks sold everywhere for making domestic jelly; also into tinned and potted jellied meats, and as a stiffener in ice cream.

By the use of known methods of refining, bleaching, &c., it is possible to make a very attractive article of gelatin from the most objectionable raw material. Nor does it follow that analytical processes applied to the finished article must certainly discover the nature of the original substances used. For this reason the inspection of all gelatin factories should be insisted upon; and the Meat Inspection Act administered by the Department of Agriculture covers this point. So far as Canada is Concerned.

Gelatin has a certain food value, although by no means equal to that of the true proteins. Hutchinson says (Food and Dietetics, p. 76), "A quart of jelly (containing about 2 per cent of gelatin) would only be able to spare the proteid of 2½ ounces of meat."

Glue is legitimately made from every kind of waste animal matter containing collagens; but although the processes involved in manufacture prevent the likelihood of any living germs remaining in the product, it violates every sense of refinement to imagine such material being used as the source of edible gelatin; for this reason it is desirable to distinguish between glue and gelatin. That commercial gelatin may be an objectionable food substance has been proven many times. I may cite the following from the experience of the federal laboratories of the United States:—

Notice of Judgment—

No. 1127.—Filthy, putrid material—642 packages destroyed.
No. 1128.—Filthy, putrid material—270 packages destroyed.
No. 1365.—Filthy, putrid material—5 barrels destroyed.
No. 2062.—Glue, sold as gelatin—fine, $40.
No. 2295.—Contained 14 to 15 parts arsenic and 230 parts zinc per million—bond for $500.
No. 2629.—Contained arsenic, 13 parts per million—bond given for $500.

The *British Pharmacopoeia* describes gelatin as follows (Edit. 1898):—

GELATIN.

The air-dried product of the action of boiling water on such animal tissues as skin, tendons, ligaments and bones.

Characters and Tests.—In translucent and almost colourless sheets or shreds. A solution in 50 parts of hot water is inodorous, and solidifies to a jelly on cooling. Gelatin is insoluble in alcohol (90 per cent) and ether. It dissolves in acetic acid. Its aqueous solution yields a precipitate with solution of tannic acid, but not with solution of other acids, nor with solution of alum, solution of lead acetate, or test-solution of ferric chloride.

E. J. Parry (Foods and Drugs, Vol. 1, page 414), says:—

From the food point of view, the following are the essentials of a good gelatin:

1. When soaked in cold water for four hours and then made into a jelly by heating with water, it should yield no offensive odour. If it has an objectionable smell, it should at once be rejected as unfit for food.

2. If in aqueous solution, it yields an appreciable precipitate, with the reagents named by the B.P. it is to be regarded as of inferior quality as containing excess of chondrin, resulting from the decomposition of hyaline cartilage.

3. Its ash should contain no heavy metals, such as copper, which is sometimes present to the extent of 1 grain per lb., and not more than 10 parts of iron per 100,000.

4. It should not contain more than 5 parts of SO_2 per 100,000. This is determined by distilling a 5 per cent solution of the gelatin, oxidizing the distillate with bromine water and precipitating the SO_2 formed, by $BaCl_2$. Excess of SO_2 due to the use of SO_2 as a bleaching agent may cause action to be set up with the metal of the tins in which the product is frequently packed, and consequent discolouration of the product, due to the formation of metallic sulphides.

No entirely satisfactory definition of gelatin as distinguished from glue has been published. I am given to understand that the matter is being studied at Washington. It is generally accepted that the ash of high grade gelatins should not exceed 2 per cent, while 4 per cent may occur in glue without detriment to its adhesive value which, of course, is the critical datum in glue. A limit should be placed upon permissible sulphur in sulphites or sulphurous acid; but the fixing of the limiting number necessitates further consideration. Sulphurous acid is used as a bleaching agent, and probably is more largely present where highly coloured material has been used in the manufacture.

The ash is above 2 per cent in 38 samples examined and herein reported. It does not reach 3 per cent in any sample.

The sulphurous acid (SO_2) varies from a trace to 1090 parts per million. It is certain that this last figure is excessive.

The matter of standardizing gelatin as distinguished from glue will be kept in view; and the analytical results now placed on record will, it is believed, greatly assist in this work.

I would respectfully suggest the publication of this report as Bulletin No. 273.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
July 7	Gelatin	54112	Morrison & Williams, Halifax, N.S.	3 pkgs	36	C. B. Knox Co., Montreal.	Pyke Bros., Halifax.
" 8	"	54113	Bauld Bros., Ltd., Halifax, N.S.	3 "	30	J. & G. Cox., Edinburgh, Scotland.	Mfrs.
" 9	"	54114	Wentzells, Ltd., Halifax, N.S.	3 "	30	"	"
" 16	"	54115	R. E. Harris & Sons, Wolfville, N.S.	3 "	25	McLaren's, Toronto.	"
" 17	"	54116	Murphy & Demont, Windsor, N.S.	3 "	30	Koepff & Co., Germany.	Unknown
" 17	"	54117	John Lynch & Son, Windsor, N.S.	3 "	45	C. B. Knox Co., Montreal.	Jno Tobin & Co., Halifax, N.S.
" 23	"	54118	W. H. Stevens, Dartmouth, N.S.	6 ozs.	30	Unknown	N. D. & C. Co., Halifax.
" 24	"	54119	Crowe Bros., Truro, N.S.	6 "	30	"	Standard Imports Co., Montreal.
" 24	"	54120	Ryan Bros, Truro, N.S.	3 pkgs	45	C. B. Knox Co., Montreal.	Black & Co., Truro, N.-E.
" 28	"	54121	Wm. Moore, Halifax, N.S.	3 "	30	J. & G. Cox, Edinburgh, Scotland.	Unknown
DISTRICT OF NORTHERN NOVA SCOTIA AND CAPE BRETON—							
Aug. 7	Gelatin	53702	A. A. McDonald, New Glasgow, N.S.	4 ozs.	30	Chas. B. Knox Co., Johnston, N.Y.	
" 7	"	53705	The 2 Barkers Co., New Glasgow, N.S.	4 "	30	"	
" 7	"	53711	D. C. McKay, New Glasgow, N.S.	4 "	30	"	
DISTRICT OF NEW BRUNSWICK—							
June 20	Gelatin	50611	W. A. Simonds, St. John, N.B.	3 pkgs	45	C. B. Knox Co., Montreal.	
" 23	"	50612	M. E. Grass, St. John, N.B.	3 "	39	J. & G. Cox, Edinburgh, Scotland.	
July 8	"	50613	The Yerxa Grocery Co., Fredericton, N.B.	3 "	25	Litster Pure Food Co., Ltd., Toronto.	
" 9	"	50614	E. A. Burden, Woodstock, N.B.	3 "	30	Pure Gold M'f'g. Co., Ltd., Toronto.	
" 10	"	50615	D. R. Bedell, Andover, N.B.	3 "	36	J. & G. Cox, Edinburgh, Scotland.	
" 11	"	50616	H. N. Dickinson, Perth, N.B.	3 "	45	Chas. B. Knox Co., Montreal.	
" 22	"	50617	W. B. McKay Co., Ltd., Sussex, N.B.	3 "	30	Standard Imports, Ltd.	

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Ash.	Sulphites Parts per 100,000 (SO_2).	Gelatinizing power of a 5 p. c. Solution.	Odour of a 5 p.c. Solution exposed to air 2 days.	Reaction with Litmus Paper.	Lead Subacetate Solution (Sp. gr. 1·26).	5 p.c. Alum Solution.	5 p.c. Ferric Chloride Solution	Remarks.	No. of Sample.
R. J. WAUGH, INSPECTOR.										
	p. c.									
... .	1·13	29	Positive.	Normal	Acid	Negative	Negative	Negative	... .	54112
....	2·30	Trace	"	"	"	"	"	"	....	54113
....	2·55	"	"	"	"	"	"	"	... ...	54114
....	1·05	29	"	"	"	"	"	"	. ...	54115
.. ..	1·25	7	"	"	"	"	"	"	.. ..	54116
....	1·42	19	"	"	"	"	"	"	....	54117
Sold as sheet gelatin.	1·37	5	"	"	"	"	"	"	Coloured red with a vegetable dye.	54118
" "	1·77	13	"	"	"	"	"	"	....	54119
....	1·22	21	"	"	"	"	"	"	....	54120
. . ..	1·80	16	"	"	"	"	"	"	... .	54121
MOSES DELOREY, TEMPORARY INSPECTOR.										
.. ..	1·12	29	"	"	"	"	"	"	....	53702
....	1·25	16	"	"	"	"	"	"	....	53705
....	1·25	27	"	"	"	"	"	"	. . ..	53711
JNO. C. FERGUSON, INSPECTOR.										
Knox Sparkling No. 1 Gelatin.	1·00	33	"	"	"	"	"	"	....	50611
....	2·20	3	"	"	"	"	"	"	....	50612
Litsters	1·25	Trace	"	"	"	"	"	"	....	50613
. . ..	1·12	20	"	"	"	"	"	"	..... .	50614
Cox's Instant Powder.	2·50	16	"	"	"	"	"	"	. ...	50615
Knox's Sparkling No. 1.	1·42	27	"	"	"	"	"	"	....	50616
... .	1·45	None	"	"	Neutral	"	"	"	.. ..	50617

BULLETIN No. 273—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK—							
1913.							
July 23	Gelatin.....	50618	Rod. McLean, Moncton, N.B.	3 pkgs	36	J. & G. Cox, Edinboro, Scot.	.....
" 23	"	50619	J. T. Ryan, Moncton, N.B.	3 "	45	Standard Imports, Ltd., Montreal.	.....
" 24	"	50620	George Stables, Newcastle, N.B.	3 "	45	Chas. B. Knox Co., Montreal.	.....
DISTRICT OF QUEBEC—							
June 18	Gelatin.....	31069	P. Légaré, Charlebourg, Quebec.	3 pkgs	36	Gorgie Mills, Edinboro, Scot.	N. Turcot et Cie.
" 19	"	56110	A. Lachance, Limoilou...	3 "	30	Standard Imports, Ltd., Montreal.	Quebec Preserving Co.
" 19	"	56111	G. Lapointe.....	3 "	30	Unknown	Gaynor & Garent
" 19	"	56112	"	3 "	30	"	Gaynor & Frère.
" 20	"	56113	W. Cantin, 135 rue du Pont, Quebec.	3 "	36	Standard Imports, Ltd., Montreal.	Joseph & Son...
" 20	"	56114	" ..	3 "	36	" ..	" ..
" 20	"	56115	H. St. Cyr, 95 rue du Pont, Quebec.	3 "	30	" ..	W. Brunet.....
" 20	"	56116	" ..	3 "	36	" ..	" ..
" 26	"	56117	Arthur Drolet, 714 rue St Valier, Quebec.	3 "	30	" ..	Turcot & Frère.
" 26	"	56118	" ..	3 "	36	Gorgie Mills, Edinboro, Scot.	" ..
DISTRICT OF EAST QUEBEC—							
June 23	Gelatin.....	53316	O. Carboneau, Berthier..	3 pkgs	30	Unknown.....	.....
" 23	"	53318	G. E. O Roy, Berthier..	3 "	30	T. & G. Co. Gelatin Wks., Edinboro.	.....
" 23	"	53319	" ..	3 "	30	.....	Unknown .....
" 23	"	53320	Z. Roi, St. François, Co. Montmagny.	3 "	30	Packed for Standard, Montreal.	.....
" 24	"	53322	L. G. Fournier, Montmagny.	3 "	30	Unknown	.....
" 24	"	53327	A. N. Normand, Montmagny.	3 "	30	Standard Imports, Montreal.	.....
" 24	"	53331	J. Fournier, St. Thomas, P.Q.	3 "	30	.....	Turcot & Frère, Quebec.

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis.								Remarks.	No. of Sample.
	Ash.	Sulphites Parts per 100,000 (SO_2).	Gelatinizing power of a 5 p.c. Solution.	Odour of a 5 p.c. Solution exposed to air 2 days.	Reaction with					
					Litmus Paper.	Lead Subacetate Solution (Sp. gr. 1·26).	5 p.c. Alum Solution.	5 p.c. Ferric Chloride Solution.		

Concluded.

	p. c.									
Cox's	2·25	3	Positive.	Normal	Acid.	Negative.	Negative.	Negative.		50618
The Lady Charlotte.	1·40	None.	"	"	Neutral.	"	"	"		50619
Knox's Sparkling	1·12	22	"	"	Acid.	"	"	"		50620

F. X. W. E. BELAND, INSPECTOR.

	2·50	Trace.	"	"	Acid.	"	"	"		37069
	1·27	4	"	"	Neutral.	"	"	"		56110
	1·47	4	"	"	"	"	"	"	Coloured red with a vegetable dye.	56111
	1·50	4	"	"	"	"	"	"		56112
	1·30	None.	"	"	"	"	"	"		56113
	1·55	"	"	"	"	"	"	"	Coloured red with a vegetable dye.	56114
	1·10	"	"	"	"	"	"	"		56115
	1·60	8	"	"	"	"	"	"	Coloured red with a vegetable dye.	56116
	1·52	6	"	"	"	"	"	"	"	56117
	2·37	5	"	"	Acid	"	"	"		56118

ALP PELLETIER, INSPECTOR.

	1·42	1	"	"	Neutral.	"	"	"		53316
Sparkling	1·85	Trace.	"	"	Acid.	"	"	"		53318
	1·37	None.	"	"	Neutral.	"	"	"		53319
	1·37	"	"	"	"	"	"	"		53320
	1·25	6	"	"	"	"	"	"		53322
	1·40	Trace.	"	"	"	"	"	"		53327
	1·35	1	"	"	z	"	"	"	Coloured red with a vegetable dye.	53331

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Addres of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF EAST QUEBEC—							
1913.							
July 2	Gelatin	53344	R. Lespérance, Montmagny.	3 pkgs	30		Whitehead & Turner, Quebec
" 3	"	53349	F. T. Caron, Cap St. Ignace.	3 "	30	Unknown	
" 3	"	53354	J. Z. Guimond, Cap St. Ignace.	3 "	30		Turcot et frère, Quebec.
DISTRICT OF THREE RIVERS							
June 20	Gelatin	58920	Camille Barrette, Joliette	1 lb...	40		L. Chaput et Cie, Montreal.
" 23	"	58926	Louis Enos, St. Félix de Valois.	¾ "	45		Jos. Dufresne, Joliette.
" 23	"	58927	Ernest Asselin, St. Félix de Valois.	20 leaves	23		"
" 24	"	58928	Williams, Three Rivers.	1 lb..	75		Lymans, Ltd., Montreal.
" 30	"	58929	Arthur Lacerte, Yamachiche.	1 "	50		L. Chaput et fils, Montreal.
" 30	"	58930	Bourret et fils, Louisville.	1 "	50		"
" 30	"	58931	Isaac Gignère, Louisville	1 "	27		Hudon Hébert, Montreal.
July 2	"	58932	G. A. De Lamirande, Louisville.	10 ozs.	32		"
" 2	"	58933	Phélias Auger, Louisville.	12 "	40		"
" 2	"	58934	J. T. Hogue, Louisville,	1 lb..,	50		"
June 25	"	58976	I. R. D. Dumont, Three Rivers.	1 "	60		Lymans, Ltd., Montreal.
DISTRICT OF EASTERN TOWNSHIPS—							
July 15	Gelatin	1612	Dean & Lacey, Sherbrooke.	3 pkgs	45	Chas. B. Knox & Co., Montreal.	
" 15	"	1613	Baille Normandier & Cie, West Shefford.	3 "	35	J. & G. Cox, Edinburgh.	
" 16	"	1614	Biron & Blouin, Sherbrooke-Est.	¾ lb...	30		C. O. Genest et fils, Sherbrooke
" 17	"	1615	La Cie Lafond Enregistrée, Weedon.	¾ "	55	Unknown	Unknown
" 23	"	1616	Avard & Nadeau, Beauce Junction.	3 pkgs	30	"	"
" 29	"	1617	C. Ostigny, Rougemont	2 "	20		L. Chaput fils & Cie, Montreal

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report, (Is not an expression of opinion).	Results of analysis.								Remarks.	No. of Sample.
	Ash.	Sulphites Parts per 100,000 (SO_2).	Gelatinizing power of a 5 p.c. solution.	Odour of a 5 p.c. solution exposed to air 2 days.	Reaction with					
					Litmus Paper	Lead Sub-acetate Solution (Sp. gr. 1·26).	5 p.c. Alum Solution.	5 p.c. Ferric Chloride Solution		
	p.c.									
.....	1·35	4	Positive.	Normal.	Neutral.	Negative.	Negative.	Negative.	Coloured red with a vegetable dye.	53344
....	1·02	Trace.	"	"	"	"	"	"	.....	53349
. .....	1·05	None.	"	"	"	"	"	"	....	53354

Concluded.

DR. V. P. LAVALLEE, INSPECTOR.

Jelly.....	1·25	81	"	"	Acid.	"	"	"	....	58920
.. . .	1·22	5	"	"	"	"	"	"	Coloured red with an aniline dye.	58926
..... .	1·90	5	"	"	"	"	"	"	" "	58927
....	1·92	45	"	"	"	"	"	"	....	58928
... .	1 20	54	"	"	"	"	"	"	....	58929
....	1·87	87	"	"	"	"	"	"	....	58930
....	2 05	87	"	"	"	"	"	"	....	58931
....	1·25	16	"	"	"	"	"	"	.. . .	58932
....	1·07	66	"	"	"	"	"	"	Coloured red with a vegetable dye.	58933
....	1·30	Trace.	.	"	"	"	"	"	.....	58934
.....	2·12	60	"	"	"	"	"	"	....	58976

J. C. ROULEAU, INSPECTOR.

....	1·27	32	"	"	Acid.	"	"	"	....	1612
....	2·25	6	"	"	"	"	"	"	....	1613
... .	1·82	43	"	"	"	"	"	"	....	1614
.....	1·65	71	"	"	"	"	"	"	....	1615
....	1·87	3	"	"	Neutral.	"	"	"	Coloured red with a vegetable dye.	1616
....	1·50	None.	"	"	"	"	"	"	.....	1617

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.
							DISTRICT OF EASTERN TOWNSHIPS
1913.							
July 30	Gelatin	1618	J. Dauphinais, St. Hilaire.	3 pkgs	36		L. Chaput et fils et Cie, Montreal
Aug. 1	"	1619	E. Beaudry, La Providence, St. Hyacinthe.	7 oz.	19		O. Demers
" 1	"	1620	R. O. Brodeur, St Hyacinthe	½ lb.	15		Eug. Lahine
" 1	"	1621	S. Bourgeais & Cie, Jonction St. Hyacinthe.	3 pkgs	43	Chas. B. Knox & Co., Johnstown, N.Y.	
							DISTRICT OF MONTREAL—
July 9	Gelatin	58726	Roméo Thouin, 2654 Notre Dame west, Montreal.	3 pkgs	60		Hudon Hebert
" 9	"	58727	W. Royal, 2542 Notre Dame west, Montreal.	3 "	76		Unknown
" 10	"	58728	A. Gravel, 1671 St. James west, Montreal.	3 "	30		Bergeron, Whissell Co., Montreal.
" 10	"	58729	A. Jolicoeur, 1707 St. James, Montreal.	3 "	25	Pure Gold Mfg. Co., Ltd., Toronto.	
" 22	"	58730	F. Langlois, River Beaudette.	3 "	30	Standa d Imports, Ltd., Montreal.	
" 22	"	58731	Joseph Sauvé, Riv. Beaudette.	3 "	45	Chas. B. Knox & Co., Montreal.	
" 23	"	58732	E. Guenette, St. Polycarpe.	3 "	30	Standard Imports, Ltd., Montreal.	
" 23	"	58733	T. Boyer, St. Polycarpe	1 lb.	60		L. Chaput et fils, Montreal.
" 24	"	58734	S. Brunet, Coteau Landing.	3 pkgs	29		Laporte Martin, Montreal.
" 24	"	58735	J. Aumais, Coteau Landing.	1 lb.	50		
							DISTRICT OF VALLEYFIELD—
July 4	Gelatin	58021	L. E. Choquette, Farnham	3 pkgs	38		
" 15	"	58022	J. A. N. Bourassa, Valleyfield.	1 lb.	80		L. Chaput fils et Cie, Ltd., Montreal.
" 15	"	58023	Primeau frère, Valleyfield.	3 pkgs	30		
" 21	"	58024	Theodule Aubry, Lancaster, Ont.	6 "	75	Chas. B. Knox & Co., Montreal.	
" 22	"	58025	J. Boyle, Alexandria.	3 "	30	Pure Gold Mfg. Co., Ltd.	
" 26	"	58026	Adam Miller, Huntingdon.	3 "	39		
" 26	"	58027	Jno. Smaill, Huntingdon.	3 "	36		

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis.								Remarks.	No. of Sample.
	Ash.	Sulphite Parts per 100,000 (SO_2).	Gelatinizing power of a 5 p.c. Solution.	Odour of a 5 p.c. Solution exposed to air 2 days.	Reaction with					
					Litmus Paper.	Lead Subacetate Solution (Sp.gr. 1·26).	5 p.c. Alum Solution	5 p.c. Ferric Chloride Solution		
Concluded.										
	p. c.									
.....	2·02	3	Positive.	Normal.	Acid.	Negative.	Negative.	Negative	.....	1618
.....	0·60	54	"	"	"	"	"	"	.....	1619
.....	1·82	6	"	"	"	"	"	"	Coloured red with an aniline dye.	1620
.....	1·17	32	"	"	"	"	"	"	.....	1621
D. J. KEARNEY, INSPECTOR.										
.....	1·45	54	"	"	"	"	"	"	.....	58726
.....	1·95	76	"	"	"	"	"	"	Coloured red with a vegetable dye.	58727
Cox's	2·55	16	"	"	"	"	"	"	.....	58728
Pure Gold Jelly.....	0·57	6	.....	.....	.....	.....	.....	.....	Jelly Powder, Lemon flavour. Coloured yellow with aniline dye. Sugar.	58729
Lady Charlotte.....	1·52	None.	Positive.	Normal.	Neutral.	Negative.	Negative.	Negative.	.....	58730
Knox.....	1·00	17	"	"	Acid.	"	"	"	.....	58731
Lady Charlotte.....	1·20	None.	"	"	"	"	"	"	.....	58732
.....	1·70	45	"	"	"	"	"	"	.....	58733
Cox's	2·45	2	"	"	"	"	"	"	Coloured red with an aniline dye.	58734
.....	2·55	21	"	"	"	"	"	"	.....	58735
J. J. COSTIGAN, ACTING INSPECTOR										
Cox's Instant Powdered.	2·52	1	"	"	"	"	"	"	.....	58021
.....	0·80	7	"	"	"	"	"	"	.....	58022
Lady Charlotte.....	1·87	trace.	"	"	Neutral.	"	"	"	Coloured red with an aniline dye.	58023
.....	1·07	"	"	"	Acid.	"	"	"	Coloured red with a vegetable dye.	58024
.....	1·42	33	"	"	"	"	"	"	.....	58025
Knox Sparkling	1·10	13	"	"	"	"	"	"	.....	58026
Cox's Instant Powdered.	2·62	13	"	"	"	"	"	"	.....	58027

BULLETIN No. 273—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1913.							
June 24	Gelatin.....	59106	The Anderson Langstaff Co., Kemptville.	3 pkgs	45	Chas. B. Knox Co., Johnstown, N.Y.	H. N. Bate & Sons, Ottawa.
" 28	"	59107	The Mackay Bros., Ltd., Renfrew.	3 "	45	J. & G. Cox, Edinboro, Scot.	Hudon, Hebert & Cie, Montreal.
July 4	"	59108	Cherry & Craig, Ottawa..	3 "	30	Unknown.....	Castle & Co., Ottawa.
" 4	"	59109	F. H. Gilchrist, Ottawa..	3 "	45	Chas. B. Knox, Montreal.	"
" 11	"	59110	Wall & Co., Ottawa.....	3 "	30	Pure Gold M'f'g. Co., Ltd., Toronto.	Mfrs.....
" 11	"	59111	" "		30	Unknown	Unknown.....
" 11	"	59112	Jos. P. Valiquette, Dalhousie, St., Ottawa.	¼ lb..	18	.....	S. J. Major, Ottawa.
" 11	"	59113	" "	¼ " ..	18	Standard Imports, Ltd., Montreal.	.....
" 11	"	59114	A. E. Rea & Co., Ltd., Ottawa.	¼ " ..	38	Jas Chalmers Son, Wil'msville, N.Y.	Unknown.....
" 11	"	59115	" "	¼ " ..	38	J. & G. Cox, Edinboro, Scot.	" .....
DISTRICT OF KINGSTON—							
June 23	Gelatin.....	57319	J. Gilbert, Kingston.....	3 pkgs	45	Cox's, Edinboro, Scot.	.....
" 23	"	57320	P. A. Haffner, Kingston..	3 "	45	C. B. Knox Co., Montreal.	.....
" 23	"	57321	J. Cullen, Kingston .	3 "	30	" "	.....
" 25	"	57322	J. H. P. Young, Belleville.	3 "	45	Knox Co., Montreal.	.....
" 25	"	57323	Thompson Bros., Belleville.	3 "	45	" "	.....
" 25	"	57324	Estate H. Crozier, Cobourg	3 "	38	Cox	.....
" 26	"	57325	H. Bradshaw, Peterboro.	3 "	45	Knox.....	.....
" 26	"	57326	J. E. Lillico, Peterboro...	3 "	45	"	.....
" 26	"	57327	P. S. White, Peterboro...	3 "	45	"	.....
" 26	"	57328	W. H. Hamilton, Peterboro.	3 "	45	"	.....

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.								Remarks.	No. of Sample.
	Ash.	Sulphites Parts per 100,000 (SO_2).	Gelatinizing power of a 5 p.c. Solution.	Odour of a 5 p.c. Solution exposed to air 2 days.	Reaction with					
					Litmus Paper.	Lead Subacetate Solution (Sp. gr. 1·26).	5 p.c. Alum Solution.	5 p.c. Ferric Chloride Solution.		
J. A. RICKEY, INSPECTOR.										
	p.c.									
Knox Sparkling No. 1.	1·35	27	Positive.	Normal.	Acid.	Negative.	Negative.	Negative.	....	59106
Cox's. Guaranteed Absolutely Pure.	2·00	13	"	"	"	"	"	"	.....	59107
Lady Charlotte.....	1·32	Non..	"	"	Neutral.	"	"	"	.....	59108
Knox	1·40	38	"	"	Acid.	"	"	"	....	59119
Pure Gold Quick Gelatin.	1·07	35	"	"	"	"	"	"	....	59110
Lady Charlotte.....	1·27	Non..	"	"	Neutral.	"	"	"	Coloured red with a vegetable dye.	59111
C. C. F. Brand	1·65	54	"	"	Acid.	"	"	"	.....	59112
Fleur de Lys Brand	2·25	49	"	"	"	"	"	"	.....	59113
Chalmers	1·37	29	"	"	"	"	"	"	.. ..	59114
Cox's Instant Powdered.	2·64	Trace.	"	"	"	"	"	"	. .. .	59115
JAS. HOGAN, INSPECTOR.										
....	2·62	6	Positive.	Normal.	Acid.	Negative.	Negative.	Negative.	....	57319
... .	1·27	54	"	"	"	"	"	"	. .. .	57320
. ...	1·22	25	"	"	"	"	"	"	....	57321
..... .	1·22	2	"	"	"	"	"	"	....	57322
....	1·29	29	"	"	"	"	"	"	....	57323
....	2·12	5	"	"	"	"	"	"	....	57324
.....	2·75	3	"	"	"	"	"	"	... .	57325
....	1·25	32	"	"	"	"	"	"	.....	57326
. ...	1·22	48	"	"	"	"	"	"	....	57327
....	1·20	21	"	"	"	"	"	"	....	57328

BULLETIN No. 273—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1913.							
June 23	Gelatin	57415	Darroch Bros., Collingwood.	3 pkgs	45		T. Long & Bros., Ltd., Collingwood.
" 24	"	57416	Whitebread Bros., Allendale.	3 "	40		Unknown
" 24	"	57417	J. J. Hatley, Orillia	3 "	30		MacLarens Imp. Cheese Co., Limited, Toronto.
" 27	"	57418	J. E. Beaton, Oshawa	3 "	45	Plymouth Rock Gelatine Co., Boston, Mass.	Unknown
" 27	"	57419	Puckett & Scilley, Oshawa	3 "	45	Knox, Johnston, N.Y.	
July 7	"	57420	Bruce & Sanderson, 377 Parliament St., Toronto.	3 ozs.	15		James Lumbers & Co., Toronto
" 7	"	57421	F. Giles, 282 College St., Toronto.	3 pkgs	30	MacLaren Imperial Cheese Co., Ltd., Toronto.	Unknown
" 7	"	57422	W.B H. Taylor, 244 Harbor St., Toronto.	3 ozs.	15		T. Kinnear & Co., Toronto.
" 8	"	57423	W. Miller, 351 Broadview Ave, Toronto.	3 pkgs	38	Cox	Unknown
" 8	"	57424	A. Provau, 134 King St. East, Toronto.	3 "	45	Knox	Unknown
DISTRICT OF HAMILTON—							
Aug. 25	Gelatin	58830	W. H. Beattie, Windham St., Guelph.	1 lb.	60	Unknown	
" 25	"	58831	Benson Bros., 25 Windham St., Guelph.	3 pkgs	45	McLarens Ltd., Hamilton.	
" 25	"	58832	Co-operative Association, 41 Quebec St., Guelph.	3 "	45	Chas. B. Knox Co, Montreal.	
" 25	Improved Cherry Jelly	58833	J. C. Hadden, 1 Quebec St., Guelph.	3 "	25	Young Winifield Ltd., Hamilton.	
" 26	Jelly Powder.	58834	Betznor & Co., 48 King St., Berlin.	3 "	30	The Litster Pure Food Co., Ltd., Toronto.	

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.								Remarks.	No. of Sample.
	Ash.	Sulphites Parts per 100,000 (SO_2).	Gelatinizing power of a 5 p.c. Solution.	Odour of a 5 p.c. Solution exposed to air 2 days.	Reaction with					
					Litmus Paper.	Lead Subacetate Solution (Sp. gr. 1·25).	5 p.c. Alum Solution.	5 p.c. Ferric Chloride Solution		
	p. c.									
... .	1·13	2	Positive	Normal	Acid..	Negative	Negative	Negative	.. ..	57415
Cox's	2·45	13	"	"	"	"	"	"	....	57416
Imperial Sterilized..	1·05	13	"	"	"	"	"	"	....	57417
Phosphated.....	2·67	6	Negative	"	"	Positive	"	"	.. ..	57418
No. 3 Knox Improved acidulated Superior to phosphated	1·00	22	Positive	"	"	Negative	"	"	....	57419
Fleur de Lys Brand.	1·92	10	"	"	"	"	"	"	.. . .	57420
Imperial Sterilized .	1·15	16	"	"	"	"	"	"	....	57421
Dentelles Apperts Chapeaux de Paille Germany	1·32	6	.	"	"	"	"	"	.. . .	57422
Cox's Instant powdered guaranteed absolutely pure.	2·25	3	"	"	"	"	"	"	... .	57423
Knox Sparkling, No. 1.	0·95	21	"	"	"	"	"	"	....	57424

H. J. DAGER, INSPECTOR.

....	1·57	21	Positive	Normal	Acid..	Negative	Negative	Negative	.. ..	58830
. ...	1·40	98	"	"	"	"	"	"	....	58831
Knox Sparkling.....	1·10	27	"	"	"	"	"	"	... .	58832
Youngs.....	0·75	6	... .	.. .	.... .	....	... .		Jelly Powder, artificial cherry flavour, red aniline dye and sugar.	58833
....	0·57	6	....	.. .	.....	.....	.....	....	Jelly Powder, artificial cherry flavour, yellow aniline dye and sugar.	58834

D. M. CAMERON, INSPECTOR.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1913.							
July 3	Gelatin	54838	Orendorf Bros., Ridgetown.	3 pkgs	45	Chas. B. Knox & Co., Johnstown, N.Y.	
" 3	"	54841	Ellsworth & Sons, Ridgetown.	3 "	45	Chas. B. Knox & Co., Johnstown, N.Y.	
" 3	"	54816	Clark & Sons, Ridgetown.	3 "	45	Chas. B. Knox & Co., Johnstown, N.Y.	
" 7	"	54852	Harry St. Andrews, Chatham.	3 "	38		A. M. Smith & Co., London.
" 7	"	54857	Geo. A. Young, Chatham.	3 "	45		T. Kenny, Sarnia.
" 8	"	54865	D. M. Squire, Walkerville.	3 "	45		Unknown
" 9	"	54867	Miller & Wiggle, Essex	3 "	45	McLarens, Ltd., Hamilton.	
" 9	"	54869	A. Raines, Essex	3 "	45	Chas. B. Knox, Montreal.	
" 9	"	54870	R. T. Moran, Leamington	3 "	45		F. Smyth & Co., Windsor.
" 10	"	54873	P. Phillips, Leamington	3 "	45		Unknown
DISTRICT OF MANITOBA—							
June 26	Gelatin	48911	F. Fawley, 436 Notre-Dame, Winnipeg.	3 pkgs	45	Chas. B. Knox & Co., Montreal.	
" 26	"	48912	" "	3 "	40	Gorgie Mills, Edinboro, Scot.	
" 26	"	48913	John Dyke, William Ave, Winnipeg.	3 "	40	Chas. B. Knox, Montreal.	
" 27	"	48914	W. J. Robinson, Portage Ave, Winnipeg.	3 "	40	Gorgie Mills, Edinboro, Scot.	
July 2	"	48915	The Central Grocery, 541 Ellice, Winnipeg.	3 "	38	Chas. B. Knox, Montreal.	
" 2	"	48916	" "	3 "	37	Gorgie Mills, Edinboro.	
" 3	"	48917	O. Hughes, Pembina St., Winnipeg.	3 "	45	"	
" 3	"	48918	Bain's Grocery, Pembina St., Winnipeg.	3 "	45	"	
" 14	"	48919	T. A. Newman & Bro., Portage la Prairie.	3 "	45		Gorgie Mills, Edinboro, Scot.
" 15	"	48920	Greenstone Grocery, Brandon.	3 "	45		Knox & Co., Montreal.

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.								Remarks.	No. of Sample.
	Ash.	Sulphites Parts per 100,000 (SO_2).	Gelatinizing power of a 5 p. c. Solution.	Odour of a 5 p. c. Solution exposed to air for 2 days.	Reaction with					
					Litmus Paper.	Lead Subacetate Solution (Sp. gr. 1·26).	5 p.c. Alum Solution.	5 p.c. Ferric Chloride Solution.		
JNO. TALBOT, INSPECTOR.										
	p.c.									
Knox Sparkling, No. 1.	1·20	29	Positive.	Normal.	Acid.	Negative.	Negative.	Negative.	....	54838
Knox acidulated....	1·05	21	"	"	"	"	"	"	....	54841
Knox Sparkling, No. 1.	1·30	33	"	"	"	"	"		....	54846
Cox's Instant powdered.	2·37	2	"	"	"	"	"	"	....	54852
Knox Sparkling, No. 1.	1·07	29	"	"	"	"	"	"	....	54857
Knox Sparkling.....	1·05	16	"	"	"	"	"	"	....	54865
McLaren's Invincible Granulated.	1·30	None	"	"	"	"	"	"	....	54867
Knox Sparkling.....	1·30	27	"	"	"	"	"	"	....	54869
....	1·32	32	"	"	"	"	"	"	....	54870
Knox Sparkling, No. 1.	1·15	29	"	"	"	"	"	"	....	54873
A. C. LARIVIÈRE, INSPECTOR.										
....	1·20	48	Positive.	Normal.	Acid.	Negative.	Negative.	Negative.	....	48911
Cox's Powdered.....	2·62	5	"	"	"	"	"	"	. ...	48912
....	1·05	21	"	"	"	"	"	"	.....	48913
Cox's Powdered....	2·10	5	"	"	"	"	"	"	....	48914
....	1·32	33	"	"	"	"	"	"	....	48915
Cox's Powdered	2·35	13	"	"	"	"	"	"	....	48916
" .. .	2·52	16	"	"	"	"	"	"	.....	48917
" .. .	2·40	1	"	"	"	"	"	"	.. . .	48918
Cox's..	2·25	14	"	"	"	"	"	"	....	48919
....	1·55	17	"	"	"	"	"	"	....	48920

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF ROCKY MOUNTAINS—							
1913.							
July 2	Gelatin	49909	L. C. Masson, Revelstoke, B.C.	3 pkgs	45	Chas. B. Knox Co., Montreal.	
" 2	"	49910	" "	3 "	45	J. & G. Cox, Edinboro, Scot.	
" 2	"	49911	" "	1 lb.	65		W. H. Malkin & Co., Vancouver
" 16	"	49922	Trail Grocery Co., Trail, B.C.	3 pkgs	45	Chas. B. Knox & Co., Montreal.	
" 16	"	49924	Union Co-Op. Association, Rossland, B.C.	3 "	30	Pure Gold M'f'g. Co., Toronto.	
" 16	"	49925	Union Co-Op. Association, Rossland B.C	3 "	40	J. & G. Cox, Edinboro, Scot.	
" 16	"	49933	Hunter Bros., Rossland, B.C.	3 "	30	Crosse & Blackwell, London, Eng.	
" 28	"	49942	Star Grocery, Nelson, B.C.	3 "	55	Chas. B. Knox & Co., Montreal.	
" 28	"	49944	Bell Trading Co., Nelson, B.C.	3 "	55	"	
DISTRICT OF VANCOUVER—							
July 29	Gelatin	54901	Columbia Produce Co., 2234 Granville st., Vancouver, B.C.	3 pkgs	30	Genesee Pure Food Co., Bridgeburgh, Ont.	
" 30	"	54902	Fairview Dept. Stores, 2020 Granville st., Vancouver, B.C.	3 "	40	J. & G. Cox, Edinboro, Scot.	
Aug. 8	"	54903	G. H. Hodgson, Steveston, B.C.	3 "	45	Chas. Knox & Co., Montreal.	
" 9	"	54904	Gruchy & Carlaw, 5th Ave. and Granville st., Vancouver.	3 "	45	"	
" 9	"	54905	London Grocery Co., 2200 Granville st., Vancouver	3 "	60	Unknown	Kelly Douglas, Vancouver.
" 9	"	54906	A. C. Bartig, 2437 Granville st., Vancouver.	3 "	60		W. H. Malkin, Vancouver.
DISTRICT OF VICTORIA—							
July 9	Gelatin	53590	Windsor Grocery Co., 817 Govt. st., Victoria, B.C.	1 lb.	65	The Grove Chem. Co., Ltd., Appley Bridge Wiggan, Eng.	
9 "	"	53592	H. & K. Grocery, 1125 Douglas st., Victoria, B.C.	3 pkgs	60	Chas. B. Knox Co., Montreal.	
9 "	"	53598	R. Erskine & Co., 861 Johnston st., Victoria, B.C.	3 "	30	J. & G. Cox, Edinboro, Scot.	

SESSIONAL PAPER No. 14

GELATIN.

Inspector's Report (Is not an expression of Opinion).	Results of analysis.								Remarks.	No. of Sample.
	Ash.	Sulphites Parts per 100,000 (SO_2).	Gelatinizing power of a 5 p.c. Solution.	Odour of a 5 p.c Solution exposed to air 2 days.	Reaction with					
					Litmus Paper.	Lead Subacetate Solution (Sp. gr. 1.26.)	5 p.c. Alum Solution.	5 p.c. Ferric Chloride Solution		
THOS. PARKER, INSPECTOR										
	p. c.									
Sparkling	1·35	27	Positive.	Normal.	Acid.	Negative.	Negative.	Negative.		49909
	2·55	4	"	"	"	"	"	"		49910
Argent	2·22	Trace.	"	"	"	"	"	"		49911
Acidulated	1·07	17	"	"	"	"	"	"		49922
	1·15	5	"	"	"	"	"	"		49924
	2·50	16	"	"	"	"	"	"		49925
Star	1·12	66	"	"	"	"	"	"		49933
Acidulated	1·12	38	"	"	"	"	"	"		49942
Sparkling	1·37	33	"	"	"	"	"	"		49944
J. F. POWER, INSPECTOR.										
Jell O	0·50	13							Jelly Powder. Artificial strawberry flavouring. Red vegatable dye and sugar.	54901
Guaranteed absolutely pure.	2·37	6	Positive.	Normal.	Acid.	Negative.	Negative.	Negative.		54902
	1·37	29	"	"	"	"	"	"		54903
Acidulated granulated.	1·37	21	"	"	"	"	"	"		54904
Sheet	0·92	None.	"	"	"	"	"	"		54905
"	0·87	6	"	"	"	"	"	"		54906
D. O'SULLIVAN, INSPECTOR										
Silver Leaf Label	1·75	109	"	"	"	"	"	"		53590
Knox Sparkling No.1	1·12	22	"	"	"	"	"	"		53592
	1·85	16	"	"	"	"	"	"		53598

Date of collection.	Nature of Sample.	No. of Sample.	Name and Adress of Vendor.	Cost.		Name and Adress of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF VICTORIA—				
1913.							
July 15	Gelatin.....	53600	Henry W. Driver, 856 Yates st., Victoria, B.C.	3 pkgs	45	Chas. B. Knox, Montreal.	.....
" 15	"	57602	M. Dyrland, 971 Yates st., Victoria, B.C.	3 "	30	J. & G. Cox, Edinboro, Scot.....	.....
" 16	"	57609	W. C. Goode, 541 Johnston st., Victoria, B.C.	1 lb...	75	....	Nat. Drug & Chem. Co., Victoria, B.C.
" 18	"	57611	The West End Grocery Co., Ltd., 1002 Govt. st., Victoria, B.C.	1 "	50	....	Loewenberg & Co., Victoria, B.C.
" 18	"	57614	Copas & Young, 633 Fort st., Victoria, B.C.	1 "	50	....	R. P. Rithet & Co., Victoria, C.B.
" 18	"	57616	Acton Bros., 1317 Douglas st., Victoria, B.C.	1 "	60	The Grove Chem. Co.. Appley Bridge, Wigan, Eng.	.....
" 18	"	57617	Dixi H. Ross & Co., 1317 Govt. st., Victoria, B.C.	1 "	50	... .	W. P. Downey, Montreal.

SESSIONAL PAPER No. 14

GELATIN.

Concluded.

Inspector's Report, (Is not an expression of Opinion)	Reults of Analysis.								Remarks.	No. of Sample.
	Ash.	Sulphite Parts per 100,000 (SO_2).	Gelatinizing power of a 5 p. c. Solution.	Odour of a 5 p.c. Solution exposed to air for 2 days.	Reaction with.					
					Litmus Paper.	Lead Subacetate Solution (Sp. gr. 1·26).	5 p.c. Alum Solution.	5 p.c. Feric Chloride Solution		
	p.c.									
Knox Sparkling No.1	1·25	16	Positive.	Normal.	Acid.	Negative.	Negative.	Negative.	....	53600
....	2·42	2	"	"	"	"	"	"	.....	57602
....	2·37	76	"	"	"	"	"	"	. ...	57609
. . ..	1·85	21	"	"	"	"	"	"	....	57611
Gelatin Argent. ...	1·82	5	"	"	"	"	"	"	....	57614
Silver Leaf Label...	1·65	60	"	"	"	"	"	"	Coloured red with aniline dye.	57616
White Duck Brand Superior.	1·80	76	"	"	"	"	"	"	....	57617

APPENDIX Q.

BULLETIN No. 274—LARD AND LARD SUBSTITUTES.

OTTAWA, January 19, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report of work done upon 243 samples of lard and lard substitutes as sold in Canada. This collection was made in June and July, 1913.

The general nature of these samples, as offered for sale, may be stated as follows:—

	Samples.
Offered for sale as lard	157
" " " compound lard.	46
Not sold as lard	40
Total	243

Of 157 samples sold as lard are found:—

Genuine	145
Adulterated	5
Doubtful	7
Total	157

Adulteration is charged for the reasons following:—

No. 58947 sold as lard, is a compound lard.
No. 58755 sold as lard, contains 3.45 p. c. water.
No. 58757 sold as lard, is a compound lard.
No. 58049 sold as lard, contains 1.67 p. c. water.
No. 58814 sold as lard, contains 1.47 p. c. water.

Six (6) samples are judged as doubtful, because the results of analysis indicate the presence of cotton seed products, but in so small amount as to be considered possibly accidental. No. 1641 was sold as lard; but the vendor declared its compound character after the sale. It is doubtful whether this should relieve him of the charge of adulteration.

Forty six (46) samples sold as compound lard are found as follows:—

	Samples.
Genuine compound lard.	43
Adulterated	3
Total	46

Adulteration consists as below :—

No. 50633, contains 1.93 p.c. water.
No. 57456, contains 1.33 p.c. "
No. 58802, contains 1.47 p.c. "

Forty (40) samples are sold by various names, and not as lard.

Of this number 38 must be regarded as fulfilling the conditions of sale. Two samples sold as Deb. No. 57454, and as Flex, No. 57457, respectively, must be regarded as adulterated, inasmuch as they contain excess of water, and of mineral solids ; among which are found distinct traces of nickel, a metal which as well as its soluble compounds, is poisonous.

I beg to recommend publication of this report as Bulletin No. 274.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

5 GEORGE V., A. 1915

BULLETIN No. 274—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher
DISTRICT OF NOVA SCOTIA—							
1913.							
July 11	Easifirst Shortening.	54127	Ritcey & Corkum, Halifax, N.S.	1 lb.	13	Gunn Co., Ltd., Toronto.	Mfrs.
" 11	Lard.	54128	P. T. Shea, Halifax, N.S.	1 "	20	J. Morrell & Co., Ottumwa, U.S.	"
" 11	Chopped Suet.	54129	Bentley & Layton, Ltd., Halifax, N.S.	1 "	20	Vendors	
" 11	Compound Lard.	54130	W. E. Ford, Halifax, N.S.	1 "	16	M. K. Fairbanks Co., Montreal.	Unknown
" 11	Crisco	54131	City Provision Store, Halifax, N.S.	1½ "	30	Proctor, Gamble Co., Cincinnati, U.S.	Jno. Tobin & Co., Halifax, N.S.
" 11	Chopped Suet.	54132	" "	1 "	20	Vendor	
" 14	Lard	54133	Jos. A. Leaman & Co., Halifax, N.S.	1 "	20	Vendors	
" 14	Chopped Suet.	54134	" "	1 "	20	"	
" 14	Lard, Compound.	54135	Geo. Henley, Halifax, N.S.	1 "	16	Swift & Co., Toronto.	Bauld Bros. Ltd. Halifax, N.S.
" 14	Crisco	54136	R. N. McDonald Estate, Halifax, N.S.	1½ "	30	Proctor Gamble Co., Cincinnati, U.S.	Jno. Tobin & Co., Halifax, N.S.
" 16	Compound.	54137	Wm. Law & Co., Yarmouth, N.S.	1 "	12	"	
" 16	Compound Lard.	54138	P. A. Yerxa, Yarmouth, N.S.	1 "	15	Laing Packing Co., Montreal.	
" 24	Kokobut	54139	A. F. Ross & Co., Truro, N.S.	2 "	40	Coaco Nut Butter, Ltd., Montreal.	
" 25	Lard	54140	J. W. Smeltzer, Lunenburg, N.S.	1 "	18	Wm. Davies Co., Ltd., Toronto.	
" 25	"	54141	B. G. Oxner, Lunenburg, N.S.	1 "	18	Gunns Ltd., Toronto.	
DISTRICT OF NEW BRUNSWICK—							
June 5	Lard	50626	2 Barkers, Ltd., St. John, N.B.	1½ lb.	27	Jno. P. Squire & Co., Boston, Mass.	
" 23	Crisco	50627	M. E. Grass, St. John, N.B.	1 "	30	The Proctor & Gamble Co., Cincinnati, U.S.	
" 23	Easifirst Shortening.	50628	Walter Gilbert, St. John, N.B.	2 "	36	Gunns Ltd., Toronto.	
July 2	"	50629	E. J. Hieatt, St. John, N.B.	1½ "	18	" "	
" 3	Lard, Compound.	50630	Geo. J. Smith, St. John, N.B.	1½ "	18	The Harris Abbatoir Co., Ltd., Toronto.	
" 3	Lard	50631	W. S. Knowles, St. John, N.B.	1½ "	30	Slipp & Flewelling, St. John, N.B.	
" 3	"	50632	J. H. Shaw Estate, St. John, N.B.	1½ "	30	Swift, U.S.A.	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results of analysis.					Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refracto-meter Reading at 40°c.	Iodine Number (Hanus).	No. of Sample.	
R. J. WAUGH, INSPECTOR						
	p. c.					
....	Traces..	Crimson	56·5	.....	54127	Not sold as lard.
Sold as pure	" ..	.....	51	... ...	54128	Genuine.
....		.. ..	.....	.....	*54129	Not sold as lard.
... .	Traces..	Crimson. ...	57·5	.....	54130	Sold as compound.
. ...	" ..	....	55	.....	54131	True to name. Not sold as lard.
... .	" ..	... .	47	.....	54132	Not sold as lard.
Sold as pure	0·15	.....	50	.....	54133	Genuine.
....		.....	.....	.....	†54134	Not sold as lard.
Jewel Brand.....	0·14	Crimson. ...	58·5	.....	54135	Sold as compound.
Purely Vegetable.....	Traces..	.....	56	.....	54136	True to name. Not sold as lard.
Flake white.....	" ..	Crimson....	59	.....	54137	Sold as compound.
Laing's..... ...	" ..	" ...	57	.....	54138	" "
Pure Vegetable Butter..	" ..	... .	36·5	.....	54139	True to name. Not sold as lard.
Sold as pure....	" ..	....	49·5	... ..	54140	Genuine.
Maple Leaf Brand....	" ..	....	50	.... .	54141	"
J. C. FERGUSON, INSPECTOR.						
....	Traces.	.....	52	....	50626	Genuine.
... .	" ..	....	55·5	.....	50627	True to name. Not sold as lard.
. ...	" ..	Crimson ...	57·5	.....	50628	Not sold as lard.
....	" ..	Red.....	57·5	94·50	50629	" "
Domestic	" ..	Crimson	57	90·78	50630	Sold as compound.
Leaf Lard.....	" ..	.....	51	.....	50631	Genuine.
Silver Leaf Brand. Guaranted pure Lard.	0·15	....	51	.....	50632	"

* No determination made. Sample of suet badly moulded. † No determination. Very mouldy sample.

BULLETIN No. 274—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF NEW BRUNSWICK—	
1913.							
July 3	Compound.. ..	50633	Chas. Robinson, St. John, N.B.	1½ lb..	20	N. K. Fairbanks Co., Ltd., Montreal.	....
" 3	Substitute....	50634	Thos. J. Dean, St. John, N.B.	1½ " .	25	Swift, Canadian Co., Ltd., Toronto.	... ...
" 8	Compound....	50635	H. O. Neill, Fredericton, N.B.	1½ " .	20	The N. K. Fairbanks Co., Ltd., Montreal.	.....
" 9	Lard	50636	Geo. H. Dent, Woodstock, N.B.	1½ " .	30	... .	The Geo. E. Barbour Co., Ltd., Woodstock, N.B.
" 11	"	50637	J. W. Craig, Perth, N.B .	1½ " .	30	....	Purves & Co., St. Stephen, N.B.
" 22	"	50638	Sussex Mercantile Co., Ltd., Sussex, N.B.	2 " .	40	Gunns, Ltd., Toronto.	....
" 22	"	50639	W. McD. Campbell, Sussex, N.B.	1½ " .	30	Matthews, Laing Ltd., Toronto.	.. ..
" 23	"	50640	J. A. Marven, Moncton, N.B.	1½ " .	21	Morris & Co., Chicago, Ill.	....
						DISTRICT OF QUEBEC—	
June 20	Lard	37095	Joseph Paquet, 128 rue du Pont, Quebec.	1½ lb	26	T. M. Sinclair Co.	T. E. Grégoire..
" 23	"	37096	Hamel & Bédard, 728 rue St-Joseph, Quebec.	1½ "	30	Ingersoll Packing Co., Ingersoll.	P. T. Busière & Cie.
" 26	"	37097	Arthur Rinfret, 414 rue St-Joseph, Quebec.	1½ " .	27	F. W. Fearman Co., Ltd., Hamilton.	Octave Jacques.
" 26	"	37098	Joseph Lyonais, 50 rue Dorchester, Quebec.	1½ " .	40	F. M. Sinclair, Cedar Rapids.	" ..
" 26	"	37099	Cantin & Frère, 271 rue St-Joseph, Quebec.	1½ " .	30	O'Keefe & Drew, Chatham, Ont.	J. B. Renaud & Cie.
" 27	"	37100	Drolet & Bédard, 12 rue Bagot, Quebec.	1½ " .	30	Vendors	.
" 27	"	56101	Oliver Bacon, 28 rue Herminie, Quebec.	1½ " .	30	Louis Drolet	Mfr. .....
" 27	"	56102	T. Gagnon, 132 rue Sauvageau, Quebec.	1½ " .	30	Sinclair, Cedar Rapids.	Desire & Drolet.
" 27	"	56103	Joseph Cauchon, Sauvageau et Franklin, Quebec.	1½ " .	30	Vendor..... ...	....
" 27	"	56104	Joseph Proulx, 284 rue Arago, Quebec.	1½ " .	30	Fowler's, Hamilton.	Turcotte & Frère.
" 27	"	56105	T. Greffard, 133 rue Victoria, Quebec.	1½ " .	27	O'Keefe, Chatham.	J. B. Renaud & Cie.
" 30	"	56106	Jean Drolet, 321 Prince-Edouard, Quebec.	1½ " .	27	Vendor.	.. ..
" 30	"	56107	T. E. Morency, 172 rue Dorchester, Quebec.	1½ " .	30	"	.....

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Water.	Halphen Test.	Butyro Refractometer Reading at 40°c.	Iodine Number (Hanus).	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. C. FERGUSON, INSPECTOR—*Concluded.*						
	p. c.					
Boar's Head	1·93	Crimson	59	98·30	50633	Sold as compound. Excess water. Adulterated.
Jewel Brand	Traces.	"	58	.....	50634	Not sold as lard.
Boar's Head	"	"	58	.....	50635	Sold as compound.
Swift's Silver Leaf Lard	"	.....	53	.....	50636	Genuine.
" "	"	.....	52·5	.....	50637	"
.....	"	.....	51	.....	50638	
.....	"	Light red	51·5	.....	50639	"
White Leaf Lard	"	.....	52·5	.....	50640	"
F. X. W. E. BELAND, INSPECTOR.						
.....	Traces.	Faint pink.	50·5	62·79	37095	Genuine.
.....	"	.....	50	.....	37096	"
.....	"	.....	51	.....	37097	"
.....	"	.....	51	.....	37098	"
.....	"	.....	50·5	.....	37099	"
.....	"	.....	50	.....	37106	"
.....	"	.....	53	.....	56101	"
.....	"	.....	51·5	.....	56102	"
.....	0·25	.....	51	.....	56103	"
.....	Traces.	.....	51·5	.....	56104	"
.....	"	.....	51	.....	56105	"
.....	"	.....	51	.....	56106	"
.....	"	.....	52	.....	56107	"

5 GEORGE V., A. 1915

BULLETIN No. 274—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF QUEBEC—							
1913.							
June 30	Lard	56108	Louis Tremblay, 192 rue Dorchester, Quebec.	1½ lb	30	Vendor	
" 30	"	56109	Dusauld & Audy, 94 rue Dorchester, Quebec.	1½ "	30	Vendors	
DISTRICT OF EAST QUEBEC—							
June 24	Lard	53323	L. J. Fournier, Montmagny, Quebec.	1½ lb	30	O'Keefe & Drew, Chatham, Ont.	
" 24	"	53324	Dame J. A. Poliquin, Montmagny, Quebec.	1½ "	27	Sinclair, Toronto.	
" 24	"	53328	A. N. Normand, Montmagny, Quebec.	1½ "	30	Imperial Pure Lard. Hamilton.	
" 24	"	53332	J. Fournier, St. Thomas, P. Q.	1½ "	30	Sinclair, Cedar Rapids, Iowa.	
" 24	"	53336	A. Letourneau, Montmagny, Quebec.	1½ "	35	Matthews Laing, Montreal.	
" 24	"	53337	N. Letourneau, Montmagny, Quebec.	1½ "	27	O'Keefe & Drew, Chatham, Ont.	
July 2	"	53339	F. A. Fournier, Montmagny, Quebec	1½ "	30	Gunn's Ltd., Toronto.	
" 2	"	53341	M. Lemieux, Montmagny, Quebec.	1½ "	30		Morris & Co., Montreal.
" 2	"	53347	J. A. Caron, Montmagny, Quebec.	1½ "	30	Gunn's Ltd., West Toronto.	Mfrs
" 2	"	53348	N.D. Laberge, St. Thomas, P. Q.	1½ "	30	" "	"
" 2	"	53353	J. Z. Guimond, Cape St. Ignace, P. Q.	1½ "	30	T. E. Sinclair, Cedar Rapids, Iowa.	
" 2	"	53355	V. Bernier, Cape St. Ignace P. Q.	1½ "	30	The Harris Abattoir, West Toronto.	
" 2	"	53356	A. Dalaire, Cape St. Ignace, P. Q.	1½ "	30	Ingersoll Packing Co., Ont.	
" 2	"	53357	Elz. Boulé, Cape St. Ignace, P. Q.	1½ "	30	T. M. Sinclair & Co., Iowa.	
" 2	"	53358	Z. Bernier, Cape St. Ignace, P. Q.	1½ "	30	Gunn's Ltd., West Toronto.	
DISTRICT OF THREE RIVERS—							
June 20	Lard, Compound.	58942	I. A. Boisvert, Joliette, P. Q.	2 pts.	36	O'Keefe & Drew, Chatham, Ont.	
" 24	Lard, Compound.	58944	W. Brissette, St. Felix de Valois, P. Q.	5 lbs.	70	N. K. Fairbank, Ltd., Montreal.	
" 25	Lard, Compound.	58945	I. H. Chaine, Three Rivers, P. Q.	1½ "	21	" "	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer Reading at 40°c.	Iodine Number (Hanus).		
Concluded.						
	p.c.					
	Traces		50		56108	Genuine.
	0·32		51		56109	"
ALP. PELLETIER, INSPECTOR.						
	Traces		52		53323	Genuine.
	"		50		53324	"
	"		52·5		53328	"
	"		52 5		53332	"
	"	Pink.	52 5	62 99	53336	"
	"		52 5		53337	"
	"		51		53339	"
	"		52		53341	"
	"		52		53347	"
	"		51		53348	"
	"		52·5		53353	"
	"	Pink	52	60·25	53355	"
	"		52		53356	"
	"	Faint pink	52	64·39	53357	"
	"	"	51	60·52	53358	"
Dr. V. P. LAVALLÉE, INSPECTOR.						
	Traces		51		58942	Sold as compound.
	"	Crimson	58·5		58944	" "
	"	"	57·5		58945	" "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF THREE RIVERS—				
1913.							
June 25	Lard	58946	O. Carignan Fils, Three Rivers.	1 pail.	60	Ingersoll Packing Co.	
" 30	"	58947	Bourret et Fils, Louisville.	3 lbs.	39	Matthews-Laing Co., Montreal.	
" 30	Lard Compound.	58948	Isaac Guiguère, Louisville.	3 "	37	N. K. Fairbank, Ltd., Montreal.	Laporte Martin, Montreal.
July 6	Lard	58977	Deschenes et Picard, Joliette.	3 "	54	Fowlers, Hamilton	
" 6	"	58978	J. M. Pelletier, Joliette	3 "	54	Laing-Matthews, Montreal.	
" 8	"	58979	W. H. Lacasse, L'Assomption.	3 "	50	Davies & Co., Ltd., Montreal.	
" 10	"	58980	A. Amirault, L'Epiphanie.	3 "	57	W. Davies, Ltd., Montreal.	
" 10	"	58981	Maria Racette, L'Epiphanie.	3 "	54	"	
" 12	"	58982	Chevalier et Magnan, Joliette.	3 "	45	Laing-Matthews, Montreal.	
" 14	"	58983	Magnan et Chevalier, Joliette.	3 "	45	W. Davies Co., Ltd., Montreal.	
" 14	"	58984	L. A. Chartier, Joliette	3 "	53	Laing-Matthews, Ltd., Montreal.	
			DISTRICT OF EASTERN TOWNSHIPS—				
July 14	Lard	1629	Isaïe Giroux, Coaticook	3 lbs.	54	Vendor	
" 14	Ko-Ko-But	1630	Woodman & McKee, Coaticook.	1 tin.	25	Dom. Cocoanut Butters, Ltd., Montreal.	
" 16	Crisco	1631	Denault Grain & Prod. Co., Sherbrooke.	1 "	30	Procter & Gamble Co., Cincinnati, Ohio.	Forbes & Nadeau, Montreal.
" 17	Lard	1632	Gosselin & Lussier, Weedon.	5 lbs.	90	FowlersCanad.Co., Ltd., Hamilton.	
" 22	"	1633	Au Bon Marché, Ltd., Black Lake.	3 "	55		Lafontaine et Frère, Black L.
" 23	"	1634	Gagné & Rodrigue	5 "	90	F. M. Sinclair & Co., Ltd., Cedar Rapids, Iowa.	
" 24	"	1635	Mackenzie & MacIver, Scottstown.	3 "	60	The Hovey Bros. Packing Co., Sherbrooke.	
" 28	"	1636	Geo. W. Buzzell & Co., Abbotsford.	3 "	55	Matthews-Laing, Ltd., Montreal	
" 28	"	1637	C. A. Phaneuf, St. Cesaire.	1 "	18	"	
" 29	"	1638	H. J. Desautels, St. Angèle, Rouville.	1½ "	27	J. B. Deschamps & fils, Montreal	
" 30	"	1639	Jos. Guertin, Belœil	1½ "	27	Swift Canad. Co., Ltd., Toronto.	

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer Reading at 40°c.	Iodine Number (Hanus).		
Concluded.						
	p. c.					
.....	Traces.	.....	50·5	.....	58946	Genuine.
....	"	Crimson....	57·5	90·67	58947	Adulterated containing cotton seed oil.
....	0·62	" ...	58	....	58948	Sold as compound.
....	Traces.	.....	50·5	.....	58977	Genuine.
....	"	Red	51	62 26	58978	Doubtful. See p. 2.
.. ..	"	....	50	.....	58979	Genuine.
. .. .	"	....	50	.....	58980	"
.....	"	..... .	50·5	.....	58981	"
....	0·11	Red	51	60·10	58982	Doubtful. See p. 2.
.. ..	Traces.	.... . .	51	.....	58983	Genuine.
. ...	"	Pink.....	51	65 64	58984	Doubtful. See p. 2.
J. C. ROULEAU, INSPECTOR.						
....	Traces.	....	50	.....	1629	Genuine.
... .	"	....	36 5	5·52	1630	Not sold as lard.
.. ..	"	....	55	.....	1631	True to name, not sold as lard.
... .	"	.....	51	.....	1632	Genuine.
....	0 24	.....	51	... .	1633	"
... .	Traces.	... .	52	....	1634	"
... .	"	.....	49·5	.....	1635	"
Labelled pure..	"	Faint pink..	51	62·19	1636	"
....	"	Pink..	52	62·51	1637	"
.....	"	"	52	60·71	1638	"
....	"	. .. .	51	..... .	1639	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF EASTERN TOWNSHIPS—				
1913.							
July 31	Lard	1640	J. B. Courchesnes, Drummondville.	1½ lbs.	33	Vendor	
" 31	"	1641	J. B. Tremblay, Drummondville.	1½ "	23	Fairbanks Co., Ltd., Montreal.	
Aug. 1	"	1642	Leop. Beaudry, La Providence, St. Hyacinthe.	1½ "	30	Vendor	
" 1	"	1643	Gregoire Freres, St. Hyacinthe.	3 "	50	Fowler's Canadian Co., Ltd., Montreal.	Gunn, Langlois & Cie.
			DISTRICT OB MONTREAL—				
July 8	Lard	58746	F. G. Flood, 252 Lagauchetière St. west, Montreal.	1½ lbs.	30		Unknown.
" 8	"	58747	S. Whitehead, 248 Lagauchetiere St. west, Montreal.	1½ "	30	Whyte Packing Co.	
" 8	"	58748	H. Lalandey, 351 Orlean St., Maisonneuve.	1½ "	27	Matthews Ltd., Montreal.	
" 8	Shortening	58749	Phaneuf & Carrière, 76 Duquette St., Montreal.	1½ "	23	Gunns Ltd., Toronto.	
" 14	Lard	58750	A. Bernier, 37 Frontenac St., Montreal.	1½ "	27		W. Champagne, Montreal.
" 14	"	58751	C. Rollin, 108 Frontenac St., Montreal.	1½ "	27	Vendor	
" 14	"	58752	Jacob Levi, 1421 DeMontigny, St., Montreal.	1½ "	29		Gunn, Langlois & Cie, Montreal.
" 14	"	58753	N. Bolduc, 115 Iberville St., Montreal.	1½ "	30	F. W. Fearman. Co., Ltd., Hamilton.	
" 14	"	58754	J. Forest, 1393 St. Catharine St. E., Montreal	1½ "	27		Gunn, Langlois, Montreal.
" 22	"	58755	F. Langlois, River Beaudette.	1½ "	27		Hudon & Orsali, Montreal.
" 22	"	58756	Joseph Sauvé, River Beaudette.	2 "	38	The Wm. Davies Co., Ltd., Montreal.	
" 23	"	58757	Mess. Thériault & Le Blanc, St. Polycarpe.	1½ "	24	Nat. Pack. and Prov. Co., Quebec.	
Aug. 6	"	58758	E. Martin, 203 Laurier Ave. west, Montreal.	1½ "	30	The Whyte Pack. Co., Ltd., Stratford, Ont.	
" 6	"	58759	John Sullivan, Laurier and Esplanade Ave., Montreal.	1½ "	30	Fowler's Canadian Co., Ltd., Hamilton.	
" 6	"	58760	Emile Gaudry, 31 Laurier Ave. west, Montreal.	1½ "	30		Gunn, Langlois & Co., Montreal.

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Water.	Halphen. Test	Butyro Refractometer Reading at 40° c.	Iodine Number (Hanus).	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.						
	p. c.					
....	Traces.	.....	51	.....	1640	Genuine.
After purchase, was informed it was a mixture.	"	Crimson....	57·5	92·27	1641	See inspector's report. Doubtful.
.....	0·42	.....	50	.....	1642	Genuine.
.....	Traces.	.....	52	.....	1643	"
D. J. KEARNEY, INSPECTOR.						
.....	Traces.	.....	51·5	.....	58746	Genuine.
.....	"	.....	52	.....	58747	"
.....	"	.....	52	.....	58748	"
.....	"	Crimson.....	58	.....	58749	Not sold as lard.
.....	"	.....	51·5	.....	58750	Genuine.
.....	"	.....	51	.....	58751	"
.....	"	Faint pink .	51·5	62·36	58752	"
Famous Star Band....	0·12	.....	51	.....	58753	"
.....	Traces.	.....	52	.....	58754	"
Swift's	3·15	.....	51·5	.....	58755	Excess water. Adulterated.
.....	Traces.	.....	51·5	.....	58756	Genuine.
.....	"	Crimson....	53	80·16	58757	Adulterated. Contains cotton seed oil.
.....	"	.....	50·5	.....	58758	Genuine.
.....	"	.....	51	.....	58759	"
.....	"	.....	50	.....	58760	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF VALLEYFIELD—							
1913.							
July 2	Lard	58036	J. Dallaire, Lachute, P.Q.	1½ lb.	30	Matthews-Laing, Ltd.	
" 2	"	58037	J. D. Campbell, Lachute, P. Q.	2 "	40	O'Keefe & Drew, Chatham, Ont.	
" 4	Compound	58038	Arthur Bisset, Farnham, P. Q.	1½ "	21	N. K. Fairbanks Co.	
" 4	Lard	58039	R. Bernard, Farnham, P. Q.	1½ "	30	A. Archambault, Farnham.	
" 10	"	58040	P. J. Roy, St. Johns, P. Q	1½ "	27	Wm. Davies Co., Ltd.	
" 10	Shortening	58041	E. Leblanc, St. Johns, P. Q.	1½ "	23	Gunns Ltd	
" 10	Lard	58042	V. Gregoire, St Johns, P. Q	1½ "	27		Stewart & Denault, St. Johns, P. Q.
" 10	"	58043	Vallée & Montambault, St. Johns, P. Q.	1½ "	27	Morris Co., Chicago.	
" 10	"	58044	Leduc et Frère, Valleyfield, P. Q.	1½ "	28		
" 15	"	58045	J. A. N. Bourassa, Valleyfield, P. Q.	1½ "	27		
" 15	"	58046	Primeau Frères, Valleyfield, P. Q.	1½ "	27		
" 21	Compound	58047	Theodule Aubry, Lancaster, Ont.	1½ "	25		
" 21	Lard	58048	D. McRae, Lancaster, Ont.	1½ "	27	Wm. Davies Co., Ltd., Montreal.	
" 21	"	58049	John Caron, Lancaster, Ont.	1½ "	24	Swifts Canad. Co., Ltd., Toronto.	
" 26	"	58050	Adam Miller, Huntingdon Ont.	1½ "	30	Matthews-Laing, Ltd., Montreal.	
DISTRICT OF OTTAWA—							
June 28	Crisco	59136	The Mackay Bros., Ltd., Renfrew, Ont.	1½ lb.	35	The Proctor Gamble Co., Cincinnati, O.	Robertson Nicolle, Kingston.
" 28	Cottolene	59137	Michael Vice, Renfrew, Ont.	1½ "	20	Fowlers Canadian Co., Hamilton.	Manufacturers
" 30	Lard, Compound.	59138	Baxter & Co., Smith's Falls, Ont.	3 "	50	Geo. Matthews Co. Ltd., Hull, P.Q.	"
" 30	Lard, Compound.	59139	A. T. Elliott, Smith's Falls, Ont.	1½ "	20	Swift Canadian Co.	"
" 30	Lard	59140	Jno Anderson, Smith's Falls, Ont.	2 "	38	The Whyte Pack Co., Ltd., Stratford.	"
" 30	Lard, Compound.	59141	Jno. Anderson, Smith's Falls, Ont.	2 "	34	The Jones P. & P. Co., Ltd., Smith's Falls.	"
" 30	Lard, Compound.	59142	McLean Bros., Smith's Falls, Ont.	1½ "	23	Gunns Ltd., Toronto.	"

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test	Butyro Refractometer Reading at 40°c.	Iodine Number (Hanus).		
J. J. COSTIGAN, ACTING INSPECTOR.						
	p. c.					
.....	Traces..	Pink..	51·5	60·92	58036	Genuine.
.....	" ..	.....	51	.. ..	58037	"
.. ..	" ..	Crimson.. ..	58	.. ..	58038	Sold as compound.
.....	" ..	Faint Pink..	50·5	58·61	58039	Genuine.
.....	" ..	.....	50·5	.....	58040	"
Easifirst.....	" ..	Crimson.....	56·5	.....	58041	Not sold as lard.
.....	" ..	.....	50·5	.....	58042	Genuine.
.....	" ..	Faint Pink..	51	64·27	58043	"
.....	" ..	.....	52	.....	58044	"
.....	" ..	.....	50·5	.....	58045	"
.....	" ..	.....	50·5	.....	58046	"
Fairbanks.....	" ..	Crimson . ..	58	96·04	58047	Sold as compound.
.....	" ..	.....	51·5	.....	58048	Genuine.
.....	1·67	.. . .	51·5	.....	58049	Excess water adulterated.
.....	Traces..	Light Pink..	51	61·79	58050	Genuine.
J. A. RICKEY, INSPECTOR.						
Purely Vegetable, guaranteed.	Traces..	.....	55·5	.....	59136	True to name. Not sold as lard.
Labelled Eclipse Com Lard sold as Cottolene.	" ..	Crimson....	58·5	90·63	59137	" "
Buttercup Brand..	" ..	"	55	.....	59138	Sold as compound.
.....	" ..	"	56·5	.....	59139	" "
White Pure Lard	" ..	.....	50·5	.....	59140	Genuine.
Ridora Brand	" ..	Crimson....	57·5	.....	59141	Sold as compound.
Easifirst Shortening.....	" ..	"	57	.....	59142	" "

5 GEORGE V., A. 1915

BULLETIN No. 274—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1913.							
July 3	Lard Compound.	59143	J. Y. Patrick, Westboro, Ont.	2 lbs.	30	Gunns, Ltd., Toronto.	Manufacturer.
" 3	Lard	59144	A. J. Lasalle, Westboro, Ont.	2 "	36	O'Keefe & Drew, Chatham, Ont.	H. N. Bate & Sons, Ottawa.
" 3	"	59145	Graham & Acres, Westboro, Ont.	2 "	36	Matthews-Laing, Ltd., Hull.	Manufacturer.
" 4	"	59146	F. H. Gilchrist, Ottawa	2 "	36	Fowlers Canadian Co., Hamilton.	"
" 4	"	59147	H. Richardson, 1087 Wellington st., Ottawa.	1½ "	27	Wm. Davies Co., Ltd., Montreal.	"
" 4	Cottolene	59148	A. G. Hannah, Ottawa	1½ "	25	Fairbanks, Montreal.	Bow & Co., Toronto.
" 11	Lard Compound.	59149	Jos. P. Valiquette, Dalhousie st., Ottawa.	1½ "	23	The Jones P. & P. Co., Ltd., Smith's Falls.	Manufacturer.
" 31	Crisco	59150	A. E. Rea Co., Ltd., Ottawa.	3 tins.	90	The Proctor-Gamble Co., Cincinnati, O.	Unknown
DISTRICT OF KINGSTON—							
June 23	Lard	57334	J. Gilbert, Kingston	1½ lbs	27	Gunn Co., Toronto	
" 23	"	57335	A. Glover, Kingston	1½ "	27	F. W. Fearman, Hamilton.	
" 22	"	57336	J. E. Purdy, Kingston	1½ "	27	Gunn Co., Toronto	
" 31	"	57337	S. Jackson, Kingston	1½ "	27	Freeman Co., Hamilton.	
" 22	"	57338	C. Saunders, Kingston	1½ "	30	Gunn Co., Toronto	
" 23	"	57339	C. H. Pickering, Kingston.	1½ "	27	Fowler Co., Hamilton.	
" 23	"	57340	E. S. Suddard, Kingston	1½ "	27	Gunn Co., Toronto	
" 23	"	57341	D. Couper, Kingston	1½ "	25	Geo. Matthews, Peterboro.	
" 23	"	57342	J. Crawford, Kingston	1½ "	27	Gunn Co., Toronto	
" 23	"	57343	J. Redden Co., Kingston.	1½ "	28	F. W. Fearman, Hamilton.	
" 25	"	57344	W. H. Lanning, Belleville	1½ "	27	Fowler Co., Hamilton.	
" 25	"	57345	J. H. P. Young, Belleville	1½ "	27	Fearman, Hamilton.	
" 25	"	57346	Thompson Bros., Belleville.	1½ "	27	Gunn Co., Hamilton.	
" 25	"	57347	Estate H. Crozier, Cobourg.	1½ "	27	Fowlers Co., Hamilton.	
" 26	"	57348	P. S. White, Peterboro	1½ "	30	Geo. Matthews Co. Peterboro.	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer Reading at 40°c.	Iodine Number (Hanus).		
Concluded						
	p. c.					
Easifirst Shortening.....	Traces.	Crimson ...	57·5	.....	59143	Sold as compound.
Guaranteed absolutely pure.	"	.....	51·5	.....	59144	Genuine.
Labelled pure lard choice quality.	"	Pink.....	51	60·42	59145	"
L. & S. Best Brand Fowlers Pure Lard.	"	"	50·5	61·02	59146	"
Labelled pure lard.	"	.....	51	.....	59147	"
....	"	Crimson ...	57	.....	59148	True to name. Not sold as lard.
Ridora Brand	"	" ...	58	.....	59149	Sold as compound.
Guaranteed purely vegetal.	"	.....	55·5	.....	59150	True to name. Not sold as lard.

JAS. HOGAN, INSPECTOR.

....	Traces.	.....	51	.....	57334	Genuine.
....	"	.....	51	.....	57335	"
....	"	.....	51	.....	57336	"
....	"	.....	50·5	.....	57337	"
....	"	.....	50·5	.....	57338	"
....	"	Pink.....	52	61·51	57339	"
....	"	.....	51	.....	57340	"
....	"	.....	51	.....	57341	"
....	"	.....	51	.....	57342	"
....	"	Crimson ...	52	63·61	57343	Doubtful. See p. 2.
....	"	.....	51·5	.....	57344	Genuine.
....	"	Pink.....	51·5	60·84	57345	"
....	"	.....	50	.....	57346	"
....	"	.....	51	.....	57347	"
....	"	.....	51	.....	57348	"

BULLETIN No. 274—

Date of Collection.	Name of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF TORONTO—	
1913.							
June 24	Crisco	57445	T. B. Cramp, Orillia	1 tin	35	Proctor Gamble Co., Cincinnati, O.	Davidson Hay Co., Ltd., Toronto
" 24	Lard	57446	Sinclair & Co.	1½ lb.	27	Gunns Ltd., Toronto.	
" 25	"	57447	H. J. Buchanan, Barrie	1½ "	30	F. W. Fearman Co., Hamilton.	
" 25	Easifirst	57448	P. Kearns, Barrie	1½ "	23	Gunns Ltd., Toronto.	
" 27	Snow Drift Oil	57749	J. E. Waterhouse, Whitby	2 tins.	76	The Southern Cotton Oil Co.	T. Kinnear & Co. Ltd., Toronto.
" 30	Lard, Compound.	57450	The Harris, Abattoir Co., Ltd., Toronto.	2 lb.	23	Vendors	
July 2	Cotosuet	57451	Swift's Canadian Co. Ltd., Toronto.	3 "	35	"	
" 2	Cotolene	57452	Nasmiths Ltd., 42 Duchess st., Toronto.	1½ "	nil.	N. K. Fairbanks, Ltd., Montreal.	
" 3	Snowflake Shortening.	57453	Matthews Laing Co., Ltd. Toronto.	2 "	23	Vendor	
" 3	Deb	57454	Geo. Weston Ltd., 420 Bathurst st., Toronto.	1½ "	23		W. G. Patrick Co., Toronto.
" 4	Lard, Compound.	57455	The Wm. Davies Co., Ltd., 562 Queen st., West, Toronto.	2	34	Vendors	
" 7	Lard, Compound.	57456	T. Chisholm, 298 Queen st., East, Toronto.	1½ "	15		N. K. Fairbanks, Montreal.
" 7	Flex	57457	W. J. Lloyd & Co., 520 Parliament st., Toronto	1½ "	25		W. G. Patrick, & Co., Toronto.
" 7	O. Shortening.	57458	H. C. Barker, 283 Spadina ave., Toronto.	1½ "	15		The Bowes Co., Ltd., Toronto.
" 8	Crisco	57459	Kennedy Bros., 975 Queen st., East, Toronto.	1 pkg.	30		Unknown
						DISTRICT OF HAMILTON—	
July 8	Lard, Compound.	58801	A. C. Vasper, 37-38 Central market, Hamilton.	1½ lb.	18	The Harris Abattoir Co., Toronto	
" 8	Lard, Compound.	58802	A. J. Lambert, 17-18 Central market, Hamilton.	1½ "	25	N. K. Fairbanks Co., Montreal.	
" 8	Shortening	58803	O. W. Bessey, 31-32 Central market, Hamilton.	1½ "	25	Gunns Ltd., Toronto.	
" 8	Lard, Compound.	58804	Jos. A. Farmer, 53-54 Cen. market, Hamilton.	1½ "	27	Vendor	
" 8	Lard	58805	J. E. Church, 44 Mary st. Brantford.	1½ "	27	Fowlers Canadian Co., Hamilton.	
" 10	"	58806	Spencer Smith, Brant st., Burlington.	3 "	54	" "	
" 10	Crisco	58807	W. Kerns & Co., Water, st , Burlington.	3 tins.	90	The Proctor Gamble Co., Cincinnati, Ohio.	
" 19	Lard	58808	Henry & Glacken. Church St., St. Catharines.	1½ lb.	27	Moyer Bros., St. Catharines.	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report (Is not an expression of Opinion.)	Results of Analysis. Water.	Halphen Test.	Butyro Refractometer Reading at 40°c.	Iodine Number (Hanus).	No. of Sample.	Remarks and Opinion of the Chief Analyst.
H. J. DAGER, INSPECTOR.						
	p. c.					
Purely Vegetable	Traces.		55·5		57445	True to name. Not sold as lard.
Maple Leaf Brand. Pure Lard.	"		51 5		57446	Genuine.
	"	Faint pink.	53	51 90	57447	"
	"	Crimson.	57·5		57448	Not sold as lard.
Weeson Snow Drift Oil. Choice winter pressed Cotton Seed Oil.	"	"	58	122·9	57449	Cotton seed oil. True to name. Not sold as lard.
Domestic	"	"	57 5		57450	Sold as compound.
Refined Cotton Seed Oil. Beef Stearine.	"	"	58		57451	True to name. Not sold as lard.
	"	"	58		57452	" " " "
Snowflake	"	"	55·5		57453	Not sold as lard.
	9·75		58	73·15	57454	Excess water. Adulterated. Contains traces of nickel. Ash = 1·55.
Peerless	Traces.	Crimson.	57·5		57455	Sold as compound.
	1·33	"	57	94·74	57456	Excess of water. Adulterated.
Boars Head	8·83		56·5	61 11	57457	Excess of water—traces of nickel. Ash = 0·77. Adulterated.
	Traces.	Crimson.	57·5		57458	Not sold as lard.
Velvet, O	"		55·5		57459	True to name. Not sold as lard.
D. M. CAMERON, INSPECTOR.						
	Traces.	Crimson.	57	88 90	58801	Sold as compound.
	1·75	"	57		58802	Sold as compound. Excess of water Adulterated.
	Traces.	"	57		58803	Not sold as lard.
	"		50 5		58804	Sold as compound.
L. & S.	"		51		58805	Genuine.
Pure	"		50 5		58806	"
	"		53		58807	True to name. Not sold as lard.
Pure	"		51		58808	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1913.							
July 19	Lard	58809	Wilson's, 33 Queen st., St. Catharines.	3 lb.	51	F. W. Fearman Co., Ltd., Hamilton.	
" 20	"	58810	L. McMann, Front st., Thorold.	3 pkgs	54	SwiftCanadianCo., Ltd.	
" 20	"	58811	I. A. Smith, Front st., Thorold.	1½ lb.	27	St. Thomas Packing Co., St. Thomas.	
" 20	Shortening	58812	W. Diamond, Front st., Thorold.	1½ "	23	Gunn's, Ltd., Toronto.	
Aug. 25	Lard	58813	Hood & Bennalack Windham st., Guelph.	1½ "	30	Fowlers Canadian Co., Hamilton.	
" 26	"	58814	J. M. Schneider, King st., Berlin.	1½ "	27	Vendor	
" 26	"	58815	W. J. McCutcheon, King st., Berlin.	1½ "	27	"	
" 26	"	58823	J. S. O'Neil, 57 Main st., Welland.	1½ "	30	Unknown	
DISTRICT OF WINDSOR—							
June 23	Lard	54828	A. E. Rosenberger, London.	1½ lb.	27	Ingersoll Packing Co.	
" 23	"	54829	Alp. Johnson, London	1½ "	27	Unknown	
" 23	"	54830	F. C. Toon, London	1¼ "	23		Elliot Marr & Co., London.
" 23	"	54831	Hoskin & Reynolds, London.	1½ "	25	Hammond Standish Co., Detroit	
" 24	"	54832	St. Thomas Packing Co., London.	1 pail	48	St. Thomas Packing Co., St. Thomas.	
" 24	"	54833	Mrs. F. Boug, London, West.	1¼ lb.	23	Jno. Duff & Son, Hamilton.	
" 24	"	54834	R. H. Wade, London, West.	1¼ "	24	F. W. Fearman Co., Hamilton.	
" 24	"	54835	W. T. Mullens, London, West.	1¾ "	33	Dom. Abattoir Co., London.	
" 24	"	54836	Taples Market, London	2 pkgs	36	Fowlers Canadian Co., Hamilton.	
July 3	"	54837	Orendorf Bros., Ridgetown	1½ lb.	30	Matthews-Laing, Ltd., Brantford.	
" 3	"	54839	J. Caron, Ridgetown	1½ "	30	St. Thomas Packing Co., St. Thomas.	
" 3	"	54840	Jas. White, Ridgeton	1 tin	40	"	
" 3	"	54844	Clark & Sons, Ridgeton	1¾ "	37	Matthews-Laing, Co., Brantford.	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer Reading at 40°c.	Iodine Number (Hanus).		

Concluded.

	p.c.					
Pure	Traces.		50·5		58809	Genuine.
"	"		51·5		58810	"
"	"		51·5		58811	"
Easifirst	"	Crimson	57		58812	Not sold as lard.
	"		51		58813	Gennine.
	1·47		50		58814	Excess water. Adulterated.
	Traces		51		58815	Genuine.
	"		50·5		58823	"

JNO. TALBOT, INSPECTOR.

Beaver Brand Pure Lard	Traces		52		54828	Gennine.
	"	Crimson	51·5	65·21	54829	Doubtful. See p. 2.
Silver Star Pure Lard	"		52		54830	Genuine.
Silver Star Lard, Guaranteed pure	"		51		54831	"
Elgin Brand Pure Lard	"		51		54832	" "
Horse Shoe Brand Pure Lard.	"		51 5		54833	"
Star Brand Pure Lard	"		52		54834	"
National Pure Lard	"		50		54835	"
L & S. Brand Choice Pure Lard.	"	Faint pink	50	60·04	54836	"
Pur lard	"		51 5		54837	"
Elgin Brand Pure Lard.	"		52		54839	"
"	"		51 5		54840	"
Matthew's Leaf Lard	"		50·5		54844	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF MANITOBA—							
1913.							
June 19	Lard	48870	A. J. Kemball, Main st. N., Winnipeg.	2½ lbs.	55	Swift's Canadian Co., Winnipeg.	
" 19	"	48871	Jas. Enright, Main and Jarvis, Winnipeg.	2½ "	55	Western Packing Co., Ltd., Winnipeg.	
" 19	"	48872	J. B. Coyle, Main st. N., Winnipeg.	2½ "	60	Swift's Canadian Co., Ltd., Winnipeg.	
" 19	"	48873	H. A. Paul, Main st. N., Winnipeg.	2½ "	55	"	
" 19	Crisco	48874	J. A. McDowell, Sherbrooke st., Winnipeg.	1½ "	30	The Procter, Gamble Co., Cincinnati, O.	
" 20	Lard	48875	J. A. McDowell, Sherbrooke st., Winnipeg.	2½ "	55	Western Packing Co., Ltd., Winnipeg.	
" 20	Crisco	48876	Dungan & Hunter, Logan ave., Winnipeg.	1½ "	30	The Procter&Gamble Co., Cincinnati, O.	
" 20	"	48877	Patterson Grocer, Elmwood, P.O., Winnipeg.	1½ "	30	"	
" 20	"	48878	Gallagher Bros., Elmwood, P.O., Winnipeg.	1½ "	30	"	
" 20	Lard	48879	"	2½ "	55	Swift's Canadian Co., Ltd., Winnipeg.	
July 4	"	48880	Portage Prov. Store, Portage ave., Winnipeg.	1 pail.	55	Gordon, Ironsides, Fares Co., Winnipeg.	
" 4	"	48881	Western Cash Store, Portage ave., Winnipeg.	1 "	55	"	
" 14	"	48882	T. A. Newman & Bros., Portage La Prairie.	1 "	60	"	
" 15	"	48883	Ed. Bolton, Brandon.	1 "	60	Swift's Canadian Co., Winnipeg.	
" 15	"	48884	Greenstone Grocery, Brandon.	1 "	60	The Cudahy Packing Co.	The CodvilleCo. Brandon.
DISTRICT OF ROCKY MOUNTAINS—							
July 2	Lard	49912	L. C. Masson, Revelstoke, B.C.	1 pail.	65	P. Burns Co., Calgary.	
" 2	"	49913	" "	1 "	65	Swift's Canadian Co., Edmonton.	
" 2	Lard, Compound.	49914	" "	1 "	55	"	
" 16	Lard	49930	H. T. Bilkey, Rossland, B.C.	1 "	75	"	
" 16	"	49931	" "	1 "	75	Armour & Co., Chicago.	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of Chief Analyst.
	Water.	Halphen Test.	Butyro Refractometer Reading at 40°c.	Iodine Number (Hanus).		
A. C. LARIVIÈRE, INSPECTOR.						
	p. c.					
.....	Traces.	Faint pink..	50·5	63·76	48870	Genuine.
....		.....	51·5	.....	48871	"
....	"	.....	52	. .....	48872	"
....	"	Light piuk..	52	62 73	48873	"
....	"	.. ..	55·5	74·89	48874	True to name. Not sold as lard.
.....	6·27	....	51	... .	48875	Genuine.
.. . .	Traces.	.....	55 5	.....	48876	True to name. Not sold as lard
.....	"	....	55·5	.....	48877	" "
....	"	Pink.... ...	54·5	79·37	48878	" "
....	"	....	51	..... .	48879	Genuine.
.. . .	"	... .	51·5	....	48880	"
....	"	.....	52	.....	48881	"
....	"	.....	53	.....	48882	"
... .	0·19	.. ..	52	.....	48883	"
"Rex" Pure Lard.....	0 19	....	52	.....	48884	"
THOS. PARKER, INSPECTOR.						
Shamrock.....	Traces .	Light pink..	51	63·37	49912	Genuine.
Silver Leaf...	" ..	Faint pink..	51·5	63·97	49913	"
Pure Lard with 35 p.c. Beef Fat.	" ..	....	50 5	.....	49914	Sold as compound.
Silver Leaf.....	" ..	Faint pink..	51·5	59·60	49930	Genuine.
Shield	" .	..... .	52	.....	49931	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF ROCKY MOUNTAINS—							
1913.							
July 16	Lard.....	49934	Hunter Bros., Rossland, B.C.	1 pail	100	E. H. Stanton Co., Spokane, Wash.	.....
" 16	Crisco.	49935	" "	1 tin	40	Proctor-Gamble Co., Cincinnati, Ohio.	.....
" 28	Lard Compound.	49936	A. J. Shirley, Rossland, B.C.	1½ lb..	25	Swift's Canadian Co., Edmonton.	.....
" 28	Lard...	49937	P. Burns & Co., Nelson, B.C.	1 pail.	60	P. Burns & Co., Calgary.	.....
" 28	Lard Compound	49938	" "	1 "	45	"	.....
" 28	"	49939	G. G. Peters, Nelson, B.C	1 "	70	Swift's Canadian Co., Edmonton.	.....
" 28	Lard.....	49941	Star Grocery, Nelson, B.C.	1 "	70	Armour & Co., Chicago.	.....
DISTRICT OF VANCOUVER—							
Aug. 19	Lard Compound.	54946	Western Grocery Co., Main St., Vancouver, B.C.	1½ lb..	20	P. Burns & Co., Vancouver.	.....
" 19	Lard.....	54947	J. S. Kelly, 2333 Main st., Vancouver, B. C.	1½ "	30	"	.....
" 19	Lard Compound.	54948	Vancouver-Prince Rupert Meat Co., Mt. Pleasant Branch, Vancouver, B.C.	1½ "	20	Vendors.....	.....
" 19	Lard.....	54949	K. &. M. Grocery, 2505 Main st., Vancouver, B.C.	1½ "	30	P. Burns & Co., Vancouver.	.....
" 20	"	51950	Vancouver-Prince Rupert Meat Co., 608 Granville st., Vancouver, B.C.	1½ "	25	Vendors.....	.....
" 20	Compound ...	54951	Slater Bros., 856 Granville st., Vancouver, B.C.	1½ "	20	P. Burns & Co., Vancouver.	.....
" 21	"	54952	Kamloops-Vancouver Meat Co., Powell and Main sts., Vancouver, B.C.	1½ "	25	Vendors.....	.....
Sept. 3	"	54953	David Spencer, Ltd., Vancouver.	3 "	40	Swift's Canadian Co., Winnipeg.	.....

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Concluded.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Water.	Halphen Test.	Butyro Refractometer Reading at 40°c.	Iodine Number (Hanus).	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	p.c.					
....	Traces.	....	50·5	.....	49934	Genuine.
....	" ..	....	55	.....	49935	True to name. Not sold as lard.
Jewel.....	" ..	Crimson... .	55	.....	49936	Sold as compound.
Shamrock.....	" ..	Red..	51·5	64·76	49937	Doubtful. See p. 2.
White Carnation.....	" ..	Crimson....	54·5	.....	49938	Sold as compound.
Jewel.....	" ..	" ...	55·5	.....	49939	" "
Simon Pure	" ..	.....	51·5	.....	49941	Genuine.

J. F. POWER, INSPECTOR.

Carnation Brand.....	Traces .	Crimson.....	55	. .....	54946	Sold as compound.
Shamrock Brand Pure Lard...	" ..	Pink.....	52	63·26	54947	Genuine.
Oak Leaf Brand.....	" ..	Crimson.....	54·5	....	54948	Sold as compound.
Shamrock.....	" ..	.....	51	.....	54949	Genuine.
White Lily Brand Pure Lard.	" ..	....	51	.....	54950	"
....	" ..	Crimson.....	54	.. ..	54951	Sold as compound.
....	" ..	.....	50·5	.....	54952	" "
. ...	" ..	Crimson.....	54	... .	54953	" "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF VICTORIA—				
1913.							
July 18	Lard Substitutes.	57612	The West End Grocery Co., Ltd., 1002 Govt. st., Victoria, B.C.	2 lbs.	45	Frye Bruhn Inc., Seattle, Wash.	
" 18	Cotosuet.....	57613	The West End Grocery Co., Ltd., 1002 Govt, st., Victoria, B.C.	5 "	75	Swifts Canadian Co., Winnipeg.	
" 18	Crisco.....	57615	Copas & Young, 633 Fort st., Victoria, B.C.	1½ "	35		
" 18	Lard Compound.	57618	Vanc, Prince Rupert Meat Co., 1423 Douglas st., Victoria, B.C.	1½ "	20	Vendors.....	
" 18	Lard Compound.	57619	Vanc. Prince Rupert Meat Co., Ltd., 586 Johnson st., Victoria, B.C.	3 "	50	"	
" 21	Lard Compound.	57620	H. O. Kirkham & Co., 741 Fort st., Victoria, B.C..	1½ "	20	"	
" 21	Crisco.....	57621	H. O. Kirkham & Co., 741 Fort st., Victoria, B.C..	1½ "	35	The Proctor Gamble Co., Cincinnati, O.	
" 21	Lard Compound.	57624	P. Burns & Co., Ltd., 902 Fort st., Victoria, B.C.	3 "	45	Vendors.	
" 21	Lard Compound.	57625	P. Burns & Co., Ltd., 902 Govt. st., Victoria, B.C.	1½ "	25	P. Burns & Co., Vancouver, B.C.	
" 22	Lard Compound.	57626	Dom. Market, Oak Bay Junction, Victoria, B.C.	3 "	20	Swifts Canadian Co., Ltd., Winnipeg.	
" 22	Lard Compound.	57627	Fernwood Market, 1308 Gladstone st., Victoria, B.C.	2 "	20	Swifts Canadian Co., Ltd., Winnipeg.	
" 22	Lard Compound.	57628	Vanc, Prince Rupert Meat Co., Ltd., 1056 Pandora ave., Victoria, B.C.	3 "	45	Vendors at Vancouver.	
" 22	Lard Compound.	57629	Jolly's Store, Cook & Pandora ave., Victoria, B.C.	1½ "	25	P. Burns & Co., Ltd. Vancouver, B.C.	
" 22	Lard Compound.	57630	Dom. Market Co., 1307 Gladstone ave., Victoria, B.C.	1½ "	15	Swifts Canadian Co., Ltd., Winnipeg.	
" 22	Lard Compound.	57631	P. Burns & Co., Ltd., 2009 Fernwood road, Victoria, B.C.	1½ "	25	P. Burns & Co., Ltd., Vancouver	

SESSIONAL PAPER No. 14

LARD AND LARD SUBSTITUTES.

Inspector's Report. (Is not an expression of Opinion).	Results Analysis. Water.	Halphen Test.	Butyro Refracto meter Reading at 40° c.	Iodine Number (Hanus).	No. of Sample.	Remarks and Opinion of the Chief Analyst.
D. O'SULLIVAN, INSPECTOR.						
Contains Refined Cotton, Seed Oil and Beef Fat.	Traces.	Crimson.	55·5	.....	57612	Sold as compound.
Contains Refined Cotton, Seed Oil and Stearine..	"	"	54·5	.....	57613	True to name. Not sold as Lard.
.....	"	.....	54·5	.....	57615	" " " "
Oak Leaf Lard, Beef Fat and Cotton Seed Oil.	"	Crimson....	53·5	.....	57618	Sold as compound.
Oak Leaf Lard, Compound.	"	.....	53 5	.....	57619	" "
Dripping.....	"	.....	48	.....	57620	" "
Purely Vegetable.....	"	.....	54·5	.....	57621	True to name. Not sold as Lard.
White Carnation.....	"	Crimson....	55·5	.....	57624	Sold as compound.
" "	"	"	55	.....	57625	" "
.....	"	"	55	.....	57626	" "
Swifts Jewel	"	"	55	.....	57627	" "
Oak Leaf, Lard Compound.	"	"	53	.....	57628	" "
White Carnation.....	"	" ...	54	.....	57629	" "
Swifts Jewel, Compound Lard.	0·11	Red.....	55	.....	57630	" "
.....	Traces.	Crimson....	55	.....	57631	" "

APPENDIX R.

BULLETIN No. 275—TOMATO KETCHUP (CATCHUP, CATSUP).

OTTAWA, February 12, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report on 70 samples purchased by our inspectors as Ketchup or Catsup in September and October last.

Sixty-seven of these samples represent Tomato Ketchup. This article has been made the subject of study in these laboratories as follows:—

Bulletin 83—December, 1902—26 samples reported.

" 129— " 1906—49 " "
" 224—May, 1911—75 " "

In 1902, preservatives (salicylic or benzoic acid) were found in 65 per cent of the collection.

In 1906, 57 per cent of the collection contained preservatives.

In 1911, 68 per cent contained preservatives, chiefly benzoic acid.

The present collection shows 74 per cent of the collection to contain preservatives; in every case the preservative is benzoic acid, showing that benzoate of soda has completely displaced salicylic acid as a preservative of Ketchup.

It is evident that manufacturers of Tomato Ketchup are impressed with the necessity of adding a preservative, either to the finished article, or to the stock from which this is made.

We have not, as yet, forbidden the use of benzoate of soda in foods, as the evidence of its use in minimum amounts necessary to prevent spoilage is not convincing as to its harmfulness to health.

A careful study of this matter was made by the Referee Board of the United States Department of Agriculture in 1909, and Food Inspection Decision No. 104 (March 3), 1909) declares:—

'It having been determined that benzoate of soda mixed with food is not deleterious or poisonous and is not injurious to health, no objection will be raised under the Foods and Drugs Act to the use in food of benzoate of soda, provided that each container or package of such food is plainly labelled to show the presence and amount of benzoate of soda.'

Several state laws, however, forbid its employment in foods.

The fact that 17 samples of this collection of Ketchup contain no preservative, and are nevertheless found to be in sound condition, would argue that Ketchup may be manufactured and marketed without a preservative; a conclusion which is in accord with a careful study of the matter made by A. W. Bitting, Inspector, Bureau of Chemistry, Washington, in 1907, and published as Bulletin No. 119. Mr. Bitting's conclusions are summed up as follows: 'The experiments . . . . were conducted under factory conditions, and upon a commercial scale. The results prove that such a Ketchup can be made and delivered to the consumer in perfect condition; the product in question having already stood ten months unopened, without showing the slightest indication of spoilage.' It was also proved that after opening, the article could be kept at a temperature of 67° for eight days, without any development of moulds.

Since Ketchup is valued rather as a condiment than as a food, it may be unfair to place too much importance upon the amount of solid matter contained in it. At the same time it is difficult to believe that the extremely low solids in some of these samples does not constitute inferiority. It is certain that most of the brands recognized by the trade as of first excellence, are characterized by a relatively high content in solids.

The samples now reported show solids as below:—

Above 30 per cent	in	11	samples.
" 25	"	3	"
" 20	"	11	"
" 15	"	14	"
" 10	"	24	"
Below 10	"	4	"

It will be seen that 60 per cent of these samples contain practically from 15 to 30 per cent of solids

It has been sufficiently proven that a Ketchup made from ripe and fresh tomatoes, shows a good colour without any addition of a dye. Dyes are absent in 42 samples of this collection (62 per cent) and these samples are for the most part of very satisfactory

colour. The late Chief Analyst, Mr. T. MacFarlane, wrote as follows in 1906 (Bulletin 129, page 3) 'I have inclined to the opinion that those samples in the manufacture of which a dye has been used are adulterated according to the Act. This judgment would not be based upon the injurious nature of the dye but because its use is prohibited by the Adulteration Act, Sec. 3 (*h*) of the latter provides that food shall be deemed to be adulterated, within the meaning of this Act, if it is so coloured or coated or polished or powdered that damage is concealed, or if it is made to appear better, or of greater value than it really is. According to information obtained from manufacturers, the use of a dye is unnecessary when the Catsup is made from fresh tomatoes. It is when the fruit is out of season, and the pulp has to be kept in stock for a considerable time that the colour suffers, and the use of a dye becomes necessary. In such case it might be reasonably inferred that they have been coloured to conceal damage, or that the dye has been used to make the article appear of greater value than it really is, and consequently that the word adulterated should be applied.'

I am inclined to hold that the above ruling is correct, in the main; but in the absence of direct evidence of the inferior character of the stock used, I think it scarcely justifiable to assert that such stock must necessarily have been of inferior quality because of the presence of a dye in the finished product.

Tomato Ketchup should be prepared only from sound, fresh and ripe tomatoes. There is too much reason to believe that some makers of the article have, at times used fruit which could not find a market except under a disguise; employing antiseptics to arrest decay, and dyes to give a desirable colour. This conclusion is justified by such facts as, that the federal government of the United States obtained judgments against nineteen interstate shipments of Ketchup between May, 1912, and March, 1913, on the ground that these consisted in part of a decomposed and putrid vegetable substance. All these samples contained benzoate of soda, and it goes without saying that this preservative had been added to an already decomposed or decayed material in order to arrest further decay.

Decomposition and putridity in vegetable material of the kind in question is indicated, (1) by the percentage of microscopic fields which show mould filaments, (2) by the number of yeasts and spores found in 1/60 of a cubic millimeter, (3) by the number of bacteria found in 1 cubic centimeter.

It has been shown conclusively (Circular No. 68, Bureau of Chemistry, Washington) that under good factory conditions, the maximum percentage of fields showing moulds need never exceed 25; that the number of yeasts and spores in 1/60 cubic millimeter need never exceed 25; and that the number of bacteria per cubic centimeter need never exceed 25,000,000. The maxima quoted are very liberal, and it will be seen by a study of this report that very few of the samples examined show numbers approaching them. All the nineteen samples condemned by United States Courts, and referred to above, gave numbers greatly in excess of these, moulds being found in 32 to 84 per cent of the fields examined; yeasts and spores varying from 65 to 225 per 1/60 cubic millimeter, and bacteria per cubic centimeter running from 60,000,000 to 480,000,000.

None of the samples herein reported give such results as would justify their being condemned; but great variation exists among them; and the careful reader will find much to think about, if he studies the appended tables closely.

The matter of fixing exact standards by which to judge commercial Ketchups will be considered in the light of this and previous reports.

I beg to recommend its publication as Bulletin No. 275.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 275—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
Oct. 13.	Catsup.....	54306	Yerxas, Yarmouth, N.S..	3 bots.	30	Wm. Davies Co., Toronto, Ont.	Manufacturers..
" 23	"	54307	E. W. Crease & Son, Halifax, N.S.	3 "	75	Crosse & Blackwell, London, Eng.	" ...
" 23	"	54308	Jas. Scott & Co., Halifax, N.S.	3 "	90	" ..	" ...
" 23	"	54309	A. L. Doyle & Co., Halifax, N.S.	3 "	30	Canadian Canners, Hamilton, Ont.	Payzant & King, Halifax, N.S..
" 23	"	54310	Wm. Moore, Halifax, N.S.	3 "	25	Gorman & Eckert Co., London, Ont.	Manufacturers..
DISTRICT OF NEW-BRUNSWICK—							
Sept. 22	Catsup.....	50347	H. W. Cole, Ltd., St. John, N.B.	3 bots.	44	Libby, McNeill & Libby, Chicago.	....
" 25	"	50348	Q. Barkers, Ltd., St. John, N.B.	3 "	30	The Wm. Davies Co., Ltd., Toronto, Ont.	.....
Oct. 8	"	50349	G. A. Irving Estate, St. Stephen, N.B.	3 "	30	The Lea's Ltd., Simcoe, Ont.	... .
" 16	"	50350	E. A. Burden, Woodstock, N.B.	3 "	45	Gorman, Eckert Co., Ltd, London, Ont.	....
" 22	"	50351	Mme P. White, Moncton, N.B.	3 "	36	The Aylmer Canning, Aylmer, Ont	... .
DISTRICT OF QUEBEC—							
Sept. 23	Catsup.....	56129	G. Pepin, 132 rue Massue, Quebec.	3 bots.	75	Heinz Co., Pittsburgh, U.S.	J. B. Reneaud..
" 23	"	56130	" ..	3 "	30	T. A. Lytle Co., Toronto.	Turcotte & Frère
" 24	"	56131	O. Bacon, 28 rue Hermine, Quebec.	3 "	45	" ..	Langlois & Paradis.
" 24	"	56132	" ..	3 "	30	Heinz Co., Pittsburgh, U.S.	" ..
" 24	"	56133	" ..	3 "	45	T. A. Lytle Co., Toronto.	J. B. Reneaud & Cie.
DISTRICT OF THREE-RIVERS—							
Sept. 17	Catsup.... ...	59711	P. A. Guilbeault, St. Norbert.	3 bots.	30	Quebec Preserving Co.	Chevalier & Pouliat, Joliette.
" 18	"	59712	J. O. Daviau, Berthierville.	3 "	45	T. A. Lytle Co., Toronto.	.. ..

SESSIONAL PAPER No. 14

CATSUP.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						Remarks.	No. of Sample.	Remarks and Opinion of the Chief analyst.
	Total Solids.	Preservatives.	Coal tar Dyes.	Micro-chemical Examination. Percentage of microscope fields examined showing molds	Yeasts and spores per c.c. mm.	Bacteria per cc.			
R. J. WAUGH, INSPECTOR.									
	p. c.								
Tomato	11·60	Benzoic acid.	Present.	6	6	12,000,000		54306	
Mushroom	12·74	None.	None.				Mushroom	54307	Mushroom.
Walnut	22·96	"	"				Walut	54308	Walnut
Tomato	9·00	Benzoic acid	Present.	5	18	10,800,000		54309	
"	14·82	"	None.	Traces.	20	7,200,000		54310	
J. C. FERGUSON, INSPECTOR.									
	19·30	None.	None.	Traces.	4	4,800,000		50347	
	10·50	Benzoic acid.	Present.	"	14	4,800,000		50348	
Tomato	26·34	"	None.	"	39	12,000,000		50349	Yeast and spore too many.
" (Rex)	15·20	"	"	"	8	9,600,000		50350	
Canada First	13·60	"	Present.	10	8	12,000,000		50351	
F. X. W. E. BELAND, INSPECTOR.									
	31·30	None.	None.	Traces.	18	18,800,000		56129	
	18·47	Benzoic acid.	Present.	10	12	16,800,000		56130	
	16·46	"	None.	Traces.	4	4,800,000		56131	
	26·12	"	"	"	8	4,800,000		56132	
	31·18	None.	"	"	16	24,000,000		56133	
DR. V. P. LAVALLE, INSPECTOR.									
	12·14	Benzoic acid.	Present.	25	28	9,600,000		59711	
	21·30	"	None.	Traces.	6	24,000,000		59712	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer and Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher
						DISTRICT OF THREE RIVERS—	
1913.							
Sept. 18	Catsup.....	59713	A. L. Caisse, Berthierville.	3 bots.	36	Upton Co., Hamilton, Ont.	.....
" 19	"	59714	O. Paquette, Berthierville,	3 "	75	Heinz Co., Leamington, Ont.	.....
" 19	"	59715	J. A. Laporte, Berthierville.	3 "	75	"	.....
						DISTRICT OF EASTERN TOWNSHIPS—	
Sept. 29	Catsup.....	1712	F. Maken & Fils, Arthabaskaville.	3 bots.	45	.....	Quebec Preserving Co., Que.
" 30	"	1713	F. W. Gibson, Danville..	3 "	75	H. J. Heinz Co., Leamington, Ont.	.....
" 30	"	1714	A. J. Hudon, Richmond.	3 "	45	Grantham Canning Co., St. Catharines, Ont.	L. Chaput fils et Cie, Montreal.
Oct. 9	"	1715	O. Bienvenue, Granby ...	3 "	45	Canadian Canners' Consolidated Co., Ltd., Hamilton.	.....
" 10	"	1716	N. Hamel, Magog	3 "	36	Aylmer Canning Co., Aylmer, Ont	.....
						DISTRICT OF MONTREAL—	
Oct. 21	Catsup.....	58611	F. Dumouchel, 244 Church ave., Verdun.	3 bots.	36	Burlington Canning Co., Hamilton, Ont.	.....
" 21	"	58612	Jos. Bonenfant, 428 Church ave., Verdun.	3 "	45	H. J. Heinz Co...	.....
" 21	"	58613	P. Brunet, 418 Church ave., Verdun.	8 "	36	H. Bourque et Fils, Montreal.	.....
" 21	"	58614	P. Lajoie, 514 Church ave., Verdun.	3 "	36	The Upton Co., Hamilton, Ont.	.....
" 21	"	58615	L. LeBlanc, 143 Church ave., Verdun.	3 "	75	E. D. Smith, Winona, Ont.	.....
						DISTRICT OF OTTAWA—	
Sept. 17	Catsup.....	59186	N. Dean & Son, Renfrew, Ont.	3 bots.	75	Gorman, Eckert & Co, Ltd., London, Ont.	.....
" 20	"	59187	Alex. Sibbitt, Carleton Place.	3 "	30	The T. Upton Co., Hamilton. Ont.	S. J. Major, Ltd., Ottawa.

SESSIONAL PAPER No. 14

CATSUP.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						Remarks.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Solids.	Preservatives.	Coal Tar Dyes.	Micro-Chemical Examination. Percentage of microscopic fields examined showing moulds.	Yeast and spores per $\frac{1}{600}$ c.c. mm.	Bacteria per c.c.			
Concluded.									
	p.c.								
.....	19·90	None.	None.	Traces.	12	17,200,000	....	59713	
.....	32·10	"	"	10	14	16,000,000	....	59714	
.....	31·24	"	"	Traces.	16	18,600,000	....	59715	
J. C. ROULEAU, INSPECTOR.									
....	7·96	Benzoic Acid.	Present	25	20	16,800,000	....	1712	
Factory 16..... ..	32 64	None.	None	6	14	24,000,000	.....	1713	
... .	10·26	Benzoic Acid.	Present	50	64	9,600,000	Excess of moulds. Yeasts and spores probably made from putrified fruit	1714	Moulds, yeasts and spores too many.
....	12·30	"	None.	10	8	2,400,000	....	1715	
....	15·99	"	Present	30	10	9,600,000	Excess of moulds.	1716	
D. J. KEARNEY, INSPECTOR.									
... .	15·32	Benzoic Acid.	None.	15	35	9,600,000	Excess of yeasts and spores.	58611	Yeast & spores rather too high.
. ...	32 70	None.	"	Traces.	12	19,200,000	. . ..	58612	
. .. .	11·60	Benzoic Acid.	"	10	10	7,200,000	... .	58613	
....	18 30	None.	"	10	16	14,400,000	....	58614	
....	25·10	Benzoic. Acid.	Present	10	4	2,400,000	.. ..	58615	
J. A. RICKEY, INSPECTOR.									
Tomato.....	12 30	Benzoic Acid.	None.	Traces.	14	10,200,000	.... ..	59186	
"	19·50	None.	"	" ..	12	7,200,000	....	59187	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1913.							
Sept. 30	Catsup	59188	McDonald Bros., Gladstone ave., Ottawa.	3 bots.	30	T. A. Lytle Co., Ltd., Toronto.	F. J. Castle Co., Ottawa.
" 30	"	59189	M. Greenburg, Bank st., Ottawa.	3 "	30	Quebec Preserving Co.	Dover, Ottawa.
Oct. 1	"	59190	J. H. Bradley, Prescott	3 "	45	Standard Canning Co., Hamilton, Ont.	Lumsden Bros., Hamilton.
DISTRICT OF KINGSTON—							
Sept. 22	Catsup	60011	Thompson Bros., Belleville.	3 bots.	75	Heinz	
" 23	"	60012	M. C. Nichols, Cobourg	3 "	45	Canada Preserving Co., Hamilton.	
" 22	"	60013	Geo. Boyle, Belleville	3 "	30	Davies, Toronto	
" 23	"	60014	W. P. Platt, Cobourg	3 "	35	Standard Canning Co., Hamilton.	
" 24	"	60015	P. S. White, Peterboro	3 "	35	Gorman, Eckert & Co., London, Ont.	
DISTRICT OF TORONTO—							
Sept. 19	Catsup	57489	M. R. Yost & Son, 84 Dundas st., Toronto.	3 bots.	20	Vendors	
" 19	"	57490	The Wm. Davies Co., Ltd., 300 Queen st. East, Toronto.	3 "	45	"	
" 22	"	57491	Bishop & Son, 1039 Gerrard st., East, Toronto.	3 "	30	C. Gildner & Co., Toronto.	
" 22	"	57492	F. W. Newell, 250 Greenwood ave., Toronto.	3 "	30	Aylmer Canning Co., Aylmer, Ont	
" 22	"	57493	The T. A. Lytle Co., Ltd., Sterling road, Toronto.	3 "	37	Vendors	
DISTRICT OF HAMILTON—							
Sept. 29	Catsup	50895	George Hareling, 227 King st. East, Hamilton.	3 bots.	30	London Canning Co.	
29	"	50896	Young Bros., 241 King st. East, Hamilton.	3 "	30	W. Sommerville Co.	

SESSIONAL PAPER No. 14

CATSUP.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Solids.	Preservatives.	Coal Tar Dyes.	Micro-chemical Examination. Percentage of microscopic fields examined showing molds.	Yeasts and spores per $\frac{1}{60}$ c. mm	Bacteria per cc.			
Concluded.									
	p.c.								
Tomato, Guaranteed free from Artificial Colouring.	22·48	Benzoic Acid.	None.	10	24	4,800,000		59188	
Tomato.	6·56	"	Present	25	36	19,200,000	Excess of yeasts and spores.	59189	Yeasts & spores too high.
" Old Church	13·02	"	"	25	41	19,200,000	" "	59190	" "
JAS. HOGAN, INSPECTOR.									
	31·40	None.	None.	5	16	9,600,000		60011	
	16·70	Benzoic Acid.	"	Traces	4	4,800,000		60012	
	14·04	"	Present	"	4	4,800,000		60013	
	12·56	"	"	10	24	4,800,000		60014	
	15·14	"	None.	Traces	14	4,800,000		60015	
H. J. DAGER, INSPECTOR.									
Yost Brand	14·87	Benzoic Acid.	Present.	Traces	2	A few		57489	
Davies	12·46	"	"	"	16	2,400,000		57490	
Gildner's Standard Brand.	13·70	"	"	"	20	2,400,000		57491	
Canada First	12·04	"	"	"	4	A few		57492	
Sterling	29·92	"	None.	None	20	14,400,000		57493	
J. J. COSTIGAN, ACTING INSPECTOR.									
Peacock Brand	9·82	Benzoic Acid.	Present.	Traces	22	16,000,000		50895	
Sweet Clover	12·84	"	None.	35	12	12,000,000	Excess of molds.	50896	Excess of molds.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1913.							
Sept. 29	Catsup.....	50897	G. Lees, 201 King st., East, Hamilton.	3 bots.	30	National Canners, Ltd.	.....
" 29	"	50898	A. V. Brown, 241 James st., North, Hamilton.	3 "	45	Aylmer Canning Co.	.....
" 29	"	50899	" "	3 "	45	H. J. Heinz Co...	.....
DISTRICT OF WINDSOR—							
Oct. 8	Catsup..	54407	Fred Scarsbrook, Petrolia	3 bots.	30	.....	.....
" 9	"	54430	A. H. Gammon & Son, Sarnia.	3 "	45	Aylmer Canning Co., Aylmer, Ont	.....
" 9	"	54432	Heinz Co., Leamington ..	3 "	45	Vendors.....	.....
" 10	"	54436	Gill Bros., Strathroy.....	3 "	30	Gorman Eckert Co., London, Ont	.....
" 10	"	54440	Wm. Cross, Strathroy....	3 "	45	Lea's Ltd., Simcoe, Ont.	.....
DISTRICT OF MANITOBA—							
Oct. 1	Catsup.....	48971	F. Abbott, Kildonan West	3 bots.	75	Upton & Co., Hamilton.	The Codville Co., Winnipeg.
" 7	"	48972	Green & Co., Kildonan West.	3 "	45	Aylmer Canning Co., Aylmer, Ont	Campbell Bros. & Wilson, Winnipeg.
" 7	"	48973	Stanley's, 1623 Logan ave., West, Winnipeg.	3 "	45	" "	.....
" 7	"	48974	" "	3 "	75	Heinz, Leamington, Ont.	.....
7 7	" ...	48975	J. B. Bell, Logan ave., West, Winnipeg.	3 "	30	Gorman, Eckert Co., London, Ont	Mason & Hickey, Winnipeg.
DISTRICT OF ROCKY MOUNTAINS—							
Oct. 2	Catsup.....	49949	Bell Trading Co., Nelson, B.C.	3 bots.	60	Curtice Bros., Rochester, N.Y.	.....
" 2	"	49950	" ..	3 "	45	Imperial Spice Co., Hamilton.	.....
" 17	"	49984	Trites Wood Co., Fernie, B.C.	3 "	75	Kelowna Canning Co., Kelowna, B.C.	.....

SESSIONAL PAPER No. 14

CATSUP.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Solids.	Preservatives.	Coal Tar Dyes.	Micro chemical Examination. Percentage of microscopic fields examined showing molds.	Yeasts and spores per $\frac{1}{50}$c. mm.	Bacteria per cc.			
Concluded.									
	p. c.								
....	21·40	Benzoic Acid.	Present.	25	28	21,600,000	....	50897	
....	18·32	"	None.	Traces..	2	2,400,000	... .	50898	
..... .	32·12	None.	"	5	14	9,600,000	....	50899	
JNO. TALBOT, INSPECTOR.									
Rex Brand. ...	15·00	Benzoic Acid.	None.	Traces..	10	11,200,000	.. ..	54407	
Canada First.....	14·24	"	"	15	8	9,600,000	.....	54430	
Heinz Tomato ...	31·50	None	"	Traces..	12	26,000,000	....	54432	
Rex Brand. Guaranteed Pure.	12·80	Benzoic Acid.	"	"	22	A few....	....	54436	
Lea's Quality Tomato.	23·76	"	"	"	8	9,600,000	... .	54440	
A. C. LARIVIÈRE, INSPECTOR.									
Tomato..... ...	20·30	None.	None.	Traces..	18	20,800,000	....	48971	
"	21·10	Benzoic Acid.	Present.	10	8	A few....	.....	48972	
"	20·78	"	"	20	6	"	... .	48973	
Factory No. 16....	31·42	None	None.	5	12	4,800,000	....	48974	
Tomato..	13·20	Benzoic Acid.	"	Traces..	8	7,200,000	....	48975	
THOS. PARKER, INSPECTOR.									
Blue Label... ..	22·52	Benzoic Acid.	None.	Traces..	8	24,000,000	... .	49949	
Champion	12·18	"	Present.	20	28	14,400,000	....	49950	
Blue Funnell.....	11·62	"	None.	Traces..	98	12,000,000	Mostly yeast cells probably made from fermented fruit.	49984	Yeast and spores too high.

BULLETIN No. 275—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF ROCKY MOUNTAINS—				
1913.							
Oct. 17	Catsup.....	49985	Trites Wood Co., Fernie, B.C.	3 bots.	75	Aylmer Canning Co., Aylmer, Ont.	.....
" 17	"	49986	" ..	3 "	75	Taylor & Pringle Co., Owen Sound	.....
			DISTRICT OF VICTORIA—				
Oct. 29	Catsup	57674	Windsor Grocery Co., 817 Govt. St., Victoria, B.C.	3 bots.	75	W. K. Houston & Co., Victoria, B.C.	. .....
" 29	"	57678	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	3 "	1.05	Crosse & Blackwell, London, Eng.	.....
" 29	"	57682	Fenerty Bros., Oak Bay Junction, Victoria, B.C.	3 "	90	H. J. Heinz & Co., Pittsburgh, U.S .	.....
" 29	"	57687	James Adam, Cook and Mears Sts., Victoria, B.C.	3 "	90	Curtice Bros. Co., Rochester, U.S..	.....
Nov. 5	"	57690	H. O. Kirkham, 714 Fort St., Victoria, B.C.	3 "	90	The T. A. Snider Preserve Co., Cincinnati.	.....

SESSIONAL PAPER No. 14

CATSUP.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Soluble.	Preservatives.	Coal Tar Dyes.	Micro chemical Examination. Percentage of microscopic fields examined showing molds.	Yeasts and spores per $\frac{1}{50}$ c. mm.	Bacteria per cc.			
Concluded.									
	p. c.								
Canada First.....	16·30	Benzoic Acid.	Present.	Traces..	12	7,200,000	.. ..	49985	
T. & P.....	10·70	"	"	25	24	7,200,000	....	49986	
D. O'SULLIVAN, INSPECTOR.									
Queen City, Tomato.	14·04	Benzoic Acid.	None.	Traces..	12	9,600,000	....	57674	
Mushroom.....	14 04	None.	"	.....	.....	....	....	57678	Mushroom.
Heinz Tomato....	32·52	"	"	Traces..	8	6,000,000	....	57682	
Blue Label Tomato	23·00	Benzoic Acid.	"	15	18	16,000,000	....	57687	
Snider's Tomato .	21·40	None.	"	Traces..	6	4,500,000	....	57690	

APPENDIX S.

BULLETIN No. 276—ICE CREAM.

OTTAWA, February 14, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister, Inland Revenue.

SIR,—I have the honour to hand you a report upon Ice Cream.

One hundred and thirty six samples of the article were purchased by our inspectors, in September, October and November of last year and one sample in March of the present year.

The following is a synopsis of the results of analysis :—

Samples found genuine	77
" " adulterated	49
" " but slightly below required standard	8
" lost	2
Sold as imitation	1
Total	137

Our standards for Ice Cream, published in November 1910 (G. 934) require 14 per cent of milk fat in ordinary Ice Cream, and 12 per cent milk fat in the article when fruit or nuts are present.

Samples which show less than one per cent shortage in butter fat, I have not declared to be adulterated, but have indicated as slightly below the required standard. Our last inspection of Ice Cream was made in September and October of 1910; and the report was published as Bulletin No. 218.

I beg to recommend publication of this report as Bulletin No. 276.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 276—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF NOVA SCOTIA—	
1913.							
Oct. 29	Ice Cream ...	54346	Estate of Wm. Patrick, Halifax, N.S.	1 qt..	50	Vendor.....	.....
" 29	" ..	54347	" ..	1 " ..	50	"	.....
" 29	" ..	54348	" ..	1 " ..	50	"	.....
" 30	" ..	54349	A. Bond & Co., Halifax, N.S.	1 " ..	50	Vendors.....	.....
" 30	" ..	54350	" ..	1 " ..	50	"	.....
" 30	" ..	54351	D. R. Ross, Halifax, N.S.	1 " ..	50	Vendor.....	.....
" 30	" ..	54352	Scotia Pure Milk Co., Halifax, N.S.	1 " ..	40	Vendors.....	.....
" 30	" ..	54353	" ..	1 " ..	40	"	.....
" 30	" ..	54354	Jas. Karas, Halifax, N.S.	1 " ..	50	Scotia Pure Milk Co., Halifax, N.E.	.....
" 31	" ..	54355	A. N. Melitides, Halifax, N.S.	1 " ..	40	" ..	.....
						DISTRICT OF NEW BRUNSWICK—	
Sept. 30	Ice Cream....	50377	Thos. J. Phillips, St. John, N.B.	1 qt..	25	Vendor.....	.....
" 30	" ..	50378	People's Dairy, R. H. Crother propr., St. John, N.B.	1 " ..	30	"	.....
" 30	" ..	50379	A. Demerson, St. John, N.B.	1 " ..	nil.	"	.....
Oct. 1	" ..	50380	Frank White, St. John, N.B.	1 " ..	60	"	.....
" 1	" ..	50381	St. John Creamery, W. H. Bell, propr., St. John, N.B.	1 " ..	40	"	.....
" 1	" ..	50382	Wm. Hawker & Son, St. John, N.B.	1 " ..	60	Vendors.....	.....
" 8	" ..	50383	A. V. Checchi, St. Stephen, N.B.	1 " ..	nil.	Vendor.....	.....
" 14	" ..	50384	L. M. Vanwart, Fredericton, N.B.	1 " ..	60	"	.....
" 14	" ..	50385	Geo. F. Wilkes, Fredericton, N.B.	1 " ..	60	"	.....
" 21	" ..	50386	Maritime Dairy Co., Ltd., Sussex, N.B.	1 " ..	50	Vendors.....	.....
						DISTRICT OF QUEBEC—	
Sept. 22	Ice Cream....	56159	George Jobin, 390 rue St. Joseph, Quebec.	1 pt..	30	Vendor.....	.....
" 22	" ..	56160	Edouard Boilard, 536 rue St. Valier, Quebec.	1 " ..	50	"	.....
" 22	" ..	56161	J. D. Vaillancourt, 358 rue St. Joseph, Quebec.	1 " ..	50	"	.....
" 24	" ..	56162	O. Vézina & Cie, 691 rue St. Valier, Quebec.	1 " ..	30	"	.....

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Fat.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.				
	p. c.			
Pineapple	5·80		54346	Far too low. Adulterated.
Vanilla	5·54		54347	" "
Chocolate	7·82		54348	" "
Pineapple	7·72		54349	" "
Vanilla	8·58		54350	" "
Strawberry fruit	11·18		54351	Genuine.
Vanilla	14·96		54352	"
Pineapple	13·24	Contains pineapple	54353	"
Vanilla	13 18	Contains strawberry seeds and pulp.	54354	"
"	15·44		54355	"
J. C. FERGUSON, INSPECTOR.				
Vanilla	16·06		50377	Genuine.
Strawberry	18·68		50378	"
	25·36		50379	"
Strawberry	11·79		50380	Fat too low. Adulterated.
Vanilla	30·34		50381	Genuine.
"	10·00	Starch present	50382	Fat too low. Adulterated.
"	12·10	Gelatin present	50383	" "
"	16·42		50384	Gennine.
Chocolate	14 02		50385	"
Vanilla	19·66		50386	"
F. X. W. E. BÉLAND, INSPECTEUR.				
	8·68		56159	Fat too low. Adulterated.
	13·02	Starch present	56160	Somewhat below standard.
	12·74		56161	" " "
	14·14		56162	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF QUEBEC—				
1913.							
Sept. 24	Ice Cream....	56163	F. Clément, 785 rue St. Valier, Quebec.	1 pt..	15	Vendor.....	.....
" 25	"	56164	Emile Béland, 188 rue Durocher, Quebec.	1 " ..	20	"	.....
" 25	"	56165	N. Tcharosg Pergantes, 264½ rue St. Joseph, Québec.	1 " ..	30	"	.....
" 25	"	56166	A. L. Poliquin, 142 rue du Pont, Quebec.	1 " .	30	"	.....
" 25	"	56167	Jos. Lanson, 269 rue St. Joseph, Quebec.	1 " ..	30	"	.....
" 26	"	56168	W. Hamelin, 300 rue St. Joseph, Quebec.	1 " ..	25	"	.....
			DISTRICT OF THREE RIVERS—				
Sept. 24	Ice Cream....	59742	Philippe Gervais, Joliette.	24 ozs.	25	Vendor.....	.....
" 24	"	59743	Wilfrid St. George, Joliette.	24 "	25	"	.....
" 24	"	59744	M. Stavros, Joliette.....	24 "	30	"	.....
" 26	"	59745	I. Antoine Duval, Three Rivers.	24 "	25	"	.....
" 26	"	59746	I. R. O. Dumont, Three Rivers.	24 "	30	"	.....
" 26	"	59747	Adams Bros., Three Rivers.	24 "	30	Vendors.....	.....
" 26	"	59748	S. Chamberland, Three Rivers.	24 "	30	Vendor.	.....
" 27	"	59749	Elie Rivard, Three Rivers.	24 "	25	"	.....
" 27	"	59750	Zéphirin Bernaguez, Three Rivers.	24 "	25	"	.....
" 22	"	59752	Veuve Ducharme, St. Félix de Valois.	24 "	30	"	.....
			DISTRICT OF EASTERN TOWNSHIPS				
Sept. 29	Ice Cream....	1746	F. Beaudette, Victoriaville.	1 qt..	60	Vendor.....	.....
" 29	"	1747	C. Beaudette, Arthabaskaville.	1 " ..	50	"	.....
" 29	"	1748	J. P. Edwards, Danville..	1 " ..	50	"	.....
Oct. 1	"	1749	J. A. McLean, Sherbrooke	1 " ..	50	"	.....
" 2	" ...	1750	A. J. Lemieux, Megantic.	1 " ..	60	"	.....
" 6	"	1751	Y. Angelos, et Cie, Coaticook.	1 " ..	50	Vendors	.....

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Fat.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.

Concluded.

	p.c.			
....	6·16	....	56163	Fat too low. Adulterated.
... .	2·35	Starch present	56164	" "
... .	15·58	....	56165	Genuine.
....	6·41	....	56166	Fat too low. Adulterated.
....	7·90	....	56167	" "
....	21·54	....	56168	Genuine.

DR. V. P. LAVALLÉE, INSPECTOR.

....	20·68	....	59742	Genuine.
....	16·38	....	59743	"
....	14·62	....	59744	"
....	7·57	....	59745	Fat too low. Adulterated.
....	13·24	....	59746	Somewhat below standard.
....	15·08	....	59747	Genuine.
.. ..	6·97	Starch present....	59748	Fat too low. Adulterated.
.. ..	8·73	.....	59749	" "
....	9·00	....	59750	" "
This Ice Cream was sold to me as being prepared with "Jello" instead of cream.	3·09	....	59752	Sold as imitation.

J. C. ROULEAU, INSPECTOR.

....	27·32	....	1746	Genuine.
....	13·74	.....	1747	"
....	12·16	....	1748	Fat too low. Adulterated.
....	10·26	....	1749	"
... .	11·42	.....	1750	"
....	Samples lost	....	1751	Samples lost.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
						DISTRICT OF EASTERN TOWNSHIPS—	
1913.							
Oct. 7	Ice Cream....	1752	H. A. Thayer, Rock Island.	1 qt..	50	Vendor.....	.....
" 9	"	1753	Xenos & Xenos, Granby.	1 " ..	50	Vendor	.....
" 14	"	1754	Fouriegos & Christakos...	1 " ..	40	"	.....
" 14	"	1755	Alf. Ganam.....	1 " ..	50	Vendor	.....
						DISTRICT OF MONTREAL—	
Nov. 14	Ice Cream....	58646	J. Thomas, 623 Wellington st., Montreal.	1 qt..	40	Vendor	.....
" 17	"	58647	M. Manos, 757 Notre Dame, west, Montreal.	1 " ..	50	"	.....
" 17	"	58648	M. L. Michelson, 989 Notre Dame, west, Montreal.	1 " ..	40	"	.....
" 17	"	58649	Sperdokos Brs., 1382 Notre Dame west, Montreal	1 " ..	50	Vendors.....	.....
" 18	"	58650	Olympia Candy Co., 2433 Notre Dame, west, Montreal.	1 " ..	40	"	.....
" 18	"	58651	S. Thomas, 2025 Notre Dame, west, Montreal.	1 " ..	40	Montreal Dairy Co.	.....
" 18	"	58652	Litson Bros., 1917 Notre Dame, west, Montreal.	1 " ..	40	Vendors.....	.....
" 18	"	58653	Verdun Confectionery, 179 Church st., Verdun.	1 " ..	40	"	.....
" 18	"	58654	Jeffery Bros., 221a Church st., Verdun.	1 " ..	40	Vendor.....	.....
" 18	"	58655	D. Milaros, 1254 Wellington, Verdun.	1 " ..	40	"	.....
1914.							
Mch. 26	Ice Cream....	62404	Montreal Dairy Co. Ltd., Montreal.	1 gall.	100	Vendors.	.....
						DISTRICT OF OTTAWA—	
1913.							
Sept. 17	Ice Cream....	59161	W. B. Clark, Renfrew ...	1qt	50	Neilsons, Toronto.	Manufacturers..
" 17	"	59162	D. J. Ritza, Renfrew....	1 " ..	1.00	Ottawa Dairy Co., Ltd., Ottawa.	" ..
" 20	"	59163	W. Jenkins, Carleton Place.	1 " ..	50	" ..	" ..
" 24	"	59164	Chas. H. Roger, Britannia.	1 " ..	50	Vendor..	.....
" 24	" ...	59165	T. D. Sayer Aylmer Park, P.Q.	1 " ..	50	"	.....
" 24	"	59166	Thos. Burns, Sparks st., Ottawa.	1 " ..	60	Ottawa Dairy Co., Ltd., Ottawa.	Manufacturers..
" 26	"	59167	Walter Nixon, Sparks st., Ottawa.	1 " ..	60	Vendor...	.....
" 29	"	59168	Harrison Pharmacy, Rideau st., Ottawa.	2 br'ks	50	Ottawa Dairy Co., Ltd., Ottawa.	Manufacturers..
" 29	"	59169	J. S. Brown, Rideau st., Ottawa.	2 " ..	50	" ..	" ..
Oct. 1	"	59170	Alex. McLaughlin, Prescott.	1 qt..	50	Vendor	.....
" 1	"	59200	C. A. Kavanagh, Prescott.	1 " ..	50	"	.....

ICE CREAM.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Fat.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
Concluded.					
	p. c.				
....	11·00	.....	1752	Fat too low.	Adulterated.
....	18·18	....	1753	Genuine.	
....	20·18	....	1754	"	
.....	23·44	....	1755	"	
D. J. KEARNEY, INSPECTOR.					
....	11·07	....	58646	Fat too low.	Adulterated.
....	14·32	....	58647	Genuine.	
.. . .	14·62	.....	58648	"	
.....	15·32	.....	58649	"	
.....	8·89	.....	58650	Fat too low.	Adulterated.
....	8·58	.....	58651	"	"
.. ..	9·85	....	58652	"	"
....	7·73	... .	58653	"	"
.....	16·42	....	58654	Genuine.	
....	14·56	... .	58655	"	
....	6·82	....	62404	Fat too low.	Adulterated.
J. A. RICKEY, INSPECTOR.					
Chocolate.	10·62	Gelatin present	59161	Fat too low.	Adulterated.
Strawberry.	14·04	Very strongly dyed.	59162	Genuine.	
Vanilla	16·44	....	59163	"	
Strawberry	10·18	Some strawberry pulp.....	59164	Fat too low.	Adulterated.
Vanilla	11·68	Gelatin present	59165	"	"
"	14·94	....	59166	Genuine.	
....	14·00	....	59167	"	
Walnut ice cream brick..	12·62	Gelatin present, pieces of nuts and fruit pulp.	59168	"	
" " ..	13·86	....	59169	"	
....	20·62	....	59170	"	
..... .	15·24	....	59200	"	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
							DISTRICT OF KINGSTON—
1913.							
Sept. 19	Ice Cream	60031	N. R. Grimm, Kingston.	1 qt.	50	Vendor	
" 19	"	60032	T. Sakells, Kingston	1 "	50	"	
" 19	"	60033	H. P. Pappas, Kingston	1 "	50	"	
" 19	"	60034	T. Sakells, Kingston	1 "	50	"	
" 19	"	60035	H. T. Prices, Kingston	1 "	50	"	
" 19	"	60036	F. J. Hoag, Kingston	1 "	50	"	
" 19	"	60037	Geo. Masoud, Kingston	1 "	50	"	
" 19	"	60038	Geo. Mahood, Kingston	1 "	50	"	
" 19	"	60039	B. Zbar, Kingston	1 "	50	George Masoud, Kingston.	
" 19	"	60040	W. W. Gibson, Kingston.	1 "	50	Neilson's, Toronto.	
							DISTRICT OF TORONTO—
Sept. 24	Ice Cream	57521	The City Dairy Co., Ltd., Spadina Crescent, Toronto.	3 ozs.	25	Vendors	
" 24	"	57522	Geo. Coles, Ltd., 719 Yonge st., Toronto.	3 "	25	"	
" 25	"	57523	Patterson Candy Co., 951 Queen st. west, Toronto.	3 "	25	"	
" 25	"	57524	The Wm. Neilson Co., Ltd., 307 Gladstone ave., Toronto.	3 "	25	"	
" 25	"	57525	J. P. Langley, assignee of Union Dairy Ice Cream Co., 12 Breadlebare st., Toronto.	3 "	30	"	
" 25	"	57526	Devonhisre Mfgr. Co., rear of 64-68 Davenport road, Toronto.	3 "	25	"	
" 25	"	57527	H. W. Hunt, 788 Yonge st., Toronto.	3 "	25	Vendor	
" 25	"	57528	Huylers, 130 Yonge st., Toronto.	3 "	25	"	
" 25	"	57529	James . Boukydes, 153 Yonge st., Toronto.	3 "	25	"	
" 26	"	57530	Wm. Uusser, 410 Bloor st., west, Toronto.	3 "	30	"	
							DISTRICT OF HAMILTON—
Oct. 1	Ice Cream	50880	Louis Christopher, 79 King st., east, Hamilton.	1 qt.	40		Burke Bros., Hamilton.
" 1	"	50881	H. McArdle, 113 King st. east, Hamilton.	1 "	40		

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Fat.	Remarks.	No. of Sample.	Remarks and Opinion of the chief Analyst.
JAS. HOGAN, INSPECTOR.				
	p. c.			
Vanilla	17·64		60031	Genuine.
Strawberry	22·08		60032	"
Vanilla	21·36		60033	"
"	24·22		60034	"
Maple Walnut	18·70		60035	"
Vanilla	13·06		60036	Somewhat below standard.
"	18·32		60037	Genuine.
Chocolate	11·67		60038	Fat too low. Adulterated.
Strawberry	18·42		60039	Genuine.
Egg Coffee	10·81	Gelatin present	60040	Fat too low. Adulterated.
H. J. DAGER, INSPECTOR.				
Vanilla	17·60		57521	Genuine.
Strawberry		Both samples spoiled by fermentation, and blowing out of corks.	57522	Samples lost.
Vanilla	17·78		57523	Genuine.
"	11·03	Gelatin present	57524	Fat too low. Adulterated.
Maple Walnut	11·88	Gelatin and gum present	57525	Genuine.
Vanilla	10·79		57526	Fat too low. Adulterated.
"	17·84		57527	Genuin.
Chocolates	20·12		57528	"
Strawberry	20·92		57529	"
Egg Coffee	13·88		57530	"
J. J. COSTIGAN, ACTING INSPECTOR.				
	15·34		50880	Genuine.
	14·84		50881	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF HAMILTON—	
1913.							
Oct. 1	Ice Cream.....	50882	C. J. Christopher, 133 King st. East, Hamilton.	1 qt..	40	Vendor.....	.. ..
" 1	" ..	50883	Pure Milk Co., John st., Hamilton.	1 " ..	40	Vendors	.....
" 1	" ..	50884	George Knapman, 136 James st., north, Hamilton.	1 " ..	40	Vendor.....	.....
" 1	" ..	50885	A. Sinerneos, 105 James st., north, Hamilton.	1 " ..	45	"	....
" 1	" ..	50886	J. H. Ausseur, 84 James st., north, Hamilton.	1 " ..	50	"	.....
" 1	" ..	50887	C. E. Walker, 100 King st., west, Hamilton.	1 " ..	40	"	....
" 1	" .	50888	J. D. Chilman, 54 King st., west, Hamilton.	1 " ..	40	... .	D. O. Buist. Hamilton.
" 1	" ..	50889	Christophers, Ltd., 5 King st., east, Hamilton.	1 " ..	40	Vendors	....
						DISTRICT OF WINDSOR—	
Oct. 6	Ice Cream.....	54879	Olympia Candy Co., London.	1 qt..	Nil.	Vendors	....
" 6	" ..	54880	Geo. Peters, London.....	1 " ..	20	....	....
" 6	" ..	54881	J. E. Boomer, London....	1 " ..	40	.....	.. ..
" 6	" ..	54882	Silverwood, Ltd., London.	1 " ..	nil.	Vendors	... .
" 6	" ..	54883	Fawkes & Son, London...	1 " ..	30	"	.....
" 6	" ..	54884	C. J. Leach, London....	1 " ..	nil.	Vendor..... ...	....
" 6	" ..	54885	P. H. Hiriskos, London..	1 " ..	25	"	....
" 7	" ..	54886	Angus Taylor, St. Thomas	1 " ..	40	"	.....
" 7	" ..	54887	R. H. Beattie, "	1 " ..	40	"	.....
" 7	" ..	54888	T. L. Short, "	1 " ..	40	"	.....
						DISTRICT OF MANITOBA—	
Sept. 25	Ice Cream.....	48931	The Crescent Creamery Co., Ltd., Winnipeg.	1 qt..	Nil.	Vendors	... .
" 25	" ..	48932	" "	1 " ..	"	"	.....
" 25	" ..	48933	The Carson Hygienic Dairy Co., Ltd., Winnipeg.	1 " ..	"	"	.. . .
" 25	" ..	48934	" "	1 " ..	"	"	.....
26	" ..	48935	Premier Creamery Co., Winnipeg.	1 " ..	"	"	....

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Fat.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.				
	p. c.			
.....	20·56	.....	50882	Genuine.
.....	16·32	.....	50883	" "
.....	18·82	.....	50884	" "
.....	14·04	.....	50885	" "
.....	13·24	Gelatin present.....	50886	Somewhat below standard.
.....	19·22	.....	50887	Genuine.
.....	16·78	.....	50888	"
.....	18·58	.....	50889	"
JNO. TALBOT, INSPECTOR.				
.....	15·78	.....	54879	Genuine.
.....	17·38	.....	54880	"
.....	17·58	.....	54881	"
.....	15·78	.....	54882	"
.....	15·92	.....	54883	"
.....	15·46	.....	54884	"
.....	14·06	.....	54885	"
.....	11·84	.....	54886	Fat too low. Adulterated.
.....	20·66	.....	54887	Genuine.
.....	12·64	.....	54888	Fat too low. Adulterated.
A. C. LARIVIÈEE, INSPECTOR.				
Strawberry.....	7·90	Gelatin present	48931	Fat too low. Adulterated.
Vanilla.....	8·35	"	48932	" "
Strawberry.....	10·50	"	48933	" "
Vanilla.....	12·08	"	48934	" "
"	14·50	.....	48935	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF MANITOBA—							
1913.							
Oct. 9	Ice Cream	48936	Cunliffe & Whitlock, Notre Dame Ave., Winnipeg.	1 qt	60	The Crescent Creamery Co., Winnipeg.	
" 9	"	48937	W. Reid, Notre Dame ave., Winnipeg.	1 "	60	" "	
" 24	"	48938	Osborne Candy Kitchen, P. J. Zissus, prop., Osborne st., Winnipeg.	1 "	50	The Carson Hygienic Dairy, Winnipeg.	
" 24	"	48939	Royal Candy Kitchen, G. Gerasse, prop., Main st., Winnipeg.	1 "	50	Vendor	
" 25	"	48940	Pusateri Bros., Portage ave., Winnipeg.	1 "	50	The Crescent Creamery Co., Winnipeg.	
DISTRICT OF ROCKY MOUNTAIN—							
Oct. 1	Ice Cream	49946	R. W. & E. H. Griffith, Nelson, B.C.	1 qt	75	Vendors	
" 1	"	49947	M. Scanlon, Nelson, B.C.	1 "	75	Hazelwood Co., Spokane, Wash.	
" 1	"	49948	Poole Drug Co., Nelson, B.C.	1 "	75	Spokane Bakery, Spokane, Wash.	
" 17	"	49970	Jas. Wood, Fernie, B.C.	1 "	75	Hazelwood Co., Spokane, Wash	
Nov. 3	"	49991	Mrs. H. J. Jones, Rossland, B.C.	1 "	50	Vendor	
DISTRICT OF VICTORIA—							
Oct. 7	Ice Cream	57648	H. A. Lilly, 1417 Douglas st., Victoria, B.C.	1 qt	50	Vendor	
" 7	"	57651	V. Paul, 611 Johnston st., Victoria, B.C.	1 "	60	Royal Dairy, Victoria, B.C.	
" 15	"	57653	John Balma, 812 Yates st., Victoria, B.C.	1 "	50	Connaught Dairy, Victoria, B.C.	
" 15	"	57655	Dom. Candy Kitchen, 806 Yates st., Victoria, B.C.	1 "	50	Northwestern Creamery Co., Victoria, B.C.	
" 16	"	57656	The Empress Confectionery Co., 1325 Govt. st., Victoria, B.C.	1 "	50	Vendors	
" 16	"	57657	Ivel's Pharmacy, 1415 Govt. st., Victoria, B.C.	1 "	50	"	
" 16	"	57660	Royal Dairy, 1110 Douglas st., Victoria, B.C.	1 "	50	"	
" 16	"	57661	Northwestern Creamery Co., 650 Cormorant st., Victoria, B.C.	1 "	50	"	
" 17	"	57662	Terry's Drug Store, 705 Fort st., Victoria, B.C.	1 "	50	"	
" 17	"	57664	The Bon Ton, 640 Yates st., Victoria, B.C.	1 "	50	"	

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector' Report. (Is not an expression of Opinion.)	Results of Analysis. Fat.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.				
	p. c.			
	9·50	Gelatin present	48936	Fat too low. Adulterated.
	8·84	" "	48937	" "
	12·26		48938	" "
	14·18		48939	Genuine.
	11·16		48940	Fat too low. Adulterated.
THOS. PARKER, INSPECTOR.				
	27·50		49946	Genuine.
	12·36		49947	Fat too low. Adulterated.
	10·40		49948	" "
	12·65		49970	" "
	17·62		49991	Genuine.
D. O'SULLIVAN, INSPECTOR.				
	5·90		57648	Fat too low. Adulterated.
	15·26		57651	Genuine.
	9·40		57653	Fat too low. Adulterated.
	13·84		57655	Genuine.
	13·04		57656	Somewhat below standard.
	16·06		57657	Genuine.
	18·38		57660	"
	16·54		57661	"
	13·28		57662	Somewhat below standard.
	12·96		57664	" "

APPENDIX T

BULLETIN No. 277 TINCTURE OF IODINE

OTTAWA, February 18, 1914

WM. HIMSWORTH, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to submit a report dealing with 72 samples of Tincture of Iodine purchased in September and October last.

The following is a statement of results :—

	Samples.
Found genuine	62
" adulterated	8
" doubtful	2
Total	72

Adulteration consists in the use of Methyl Alcohol (Wood Spirit) for Ethyl Alcohol in the preparation of the article. Ethyl Alcohol alone is prescribed by the Pharmacopoeias ; and the Inland Revenue Act, Sec. 266 requires announcement of the presence of Methyl Alcohol, in black letters not less than one fourth of an inch in height, wherever it is used.

Two samples are marked doubtful because they do not conform to the formula of the British Pharmacopoeia, nor do they, with exactitude meet the requirements of any other pharmacopoeia. They have, however, evidently been prepared with honest intention, as one contains over 5 per cent of Iodine, and the other meets a demand for a colorless tincture, which however should not be confused with the B. P. Tincture of Iodine.

The last examination of Tincture of Iodine was made in 1908, and results are published in Bulletin No. 152.

I beg to recommend publication of this report as Bulletin No. 277.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst

BULLETIN No. 277—

Date of Collection.	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA							
1913.							
Oct. 13	Tincture of Iodine.	54311	L. C. Gardener Co., Yarmouth, N.S.	12 oz.	75	Vendor	
" 16	"	54312	H. E. Wilson, Windsor, N.S.	12 "	1 00	"	
" 23	"	54313	Brown Bros. & Co., Halifax, N.S.	12 "	90	Vendors	
" 27	"	54314	Crowe Bros., Truro, N.S.	12 "	1.00	"	
" 27	"	54315	J. J. Kinley, Lunenburg, N.S.	12 "	1.00	Vendor	
DISTRICT OF NEW BRUNSWICK—							
Sept. 20	Tincture of Iodine.	50387	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	3 bots.	1.20	Vendors	
Oct. 3	"	50388	The Canadian Drug Co., Ltd, St. John, N.B.	3 "	1.20	"	
" 16	"	50389	The Baird Co., Ltd., Woodstock, N.B.	3 "	1.20	"	
" 22	"	50390	Leger Drug Co., Ltd., Moncton, N.B.	3 "	1.20	"	
" 23	"	50391	C. P. Hickey, Chatham, N.B.	3 "	1.00	Vendor	
DISTRICT OF QUEBEC—							
Sept. 22	Tincture of Iodine.	56169	J. B. Giroux, 285 rue St-Joseph, Quebec.	12 oz.	1.80	Vendor	
" 22	"	56170	Jos. Masson, 808 rue St-Valier, Quebec.	12 "	1.60	"	
" 23	"	56171	A. Martineau, 731 rue St-Joseph, Quebec.	12 "	1.20	"	
" 26	"	56172	W. Brunet & Cie, 139 rue St-Joseph, Quebec.	12 "	1 20	Vendors	
" 26	"	56173	L. E. Martel, 51 rue St-Joseph, Quebec.	12 "	90	Vendor	
DISTRICT OF THREE RIVERS—							
Sept. 24	Tincture of Iodine.	59740	A. L. Boucher, Joliette	12 oz.	1.25	Vendor	
" 25	"	59755	R. W. Williams, Three Rivers.	12 "	1.00	Lymans, Ltd., Montreal.	
" 25	"	59756	J. A. Peltier, Three Rivers.	12 "	1.20	Vendor	
" 25	"	59757	L. P. Normand, Three Rivers	12 "	1.10	"	
" 27	"	59758	J. T. Gaudet, Joliette	12 "	1.25	"	

SESSIONAL PAPER No. 14

TINCTURE OF IODINE.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis: Iodine	Iodide of Potassium	Alcohol. By Volume.	Alcohol. Kind.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.						
	p. c.	p. c.	p. c.			
Sold as B. P. Formula...	8·94	None.	89·80	Ethyl 13·83 Methyl 75·97	54311	Not B. P. formula. Contains methyl alcohol. Adulterated.
" " ..	2·56	2·36	79·71	Ethyl.	54312	Genuine.
" " ..	2·49	2·51	79·71	"	54313	"
" " ..	2·54	2·42	79·71	"	54314	"
" " ..	2·65	2·28	76·24	"	54315	"
J. C. FERGUSON, INSPECTOR.						
....	3·19	3·05	81·60	Ethyl	50387	Genuine.
....	2·66	2·80	81·60	"	50388	"
U. S. Phar. formula.....	5·79	None	85·41	Methyl (crude.)	50389	Contains methyl alcohol. Adulterated.
....	2·89	3·05	75·21	Ethyl	50390	Genuine.
B. P. Formula.	2·82	2·80	76·91	"	50391	"
F. X. W. E. BELAND,-INSPECTOR.						
....	5·61	None.	78·48	Ethyl.	56169	Not B. P. formula. Doubtful.
....	2·25	2·17	80·10	"	56170	Genuine.
....	3·53	2·10	80·10	"	56171	"
....	2·26	2·78	79·32	"	56172	"
....	2·41	2·48	75·52	"	56173	"
DR. V. P. LAVALLÉE, INSPECTOR						
....	2·07	3·32	70·62	Ethyl.	59740	Genuine.
....	2·52	2·65	76·91	"	59755	"
....	2·36	2·62	78·48	"	59756	"
....	2·37	2·20	80·10	"	59757	"
....	2·07	3·32	68·78	"	59758	"

BULLETIN No. 277—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1913.							
Sept. 29	Tincture of Iodine.	1757	H. Ferron, Arthabaskville	12 oz.	1 50	.....	
Oct. 1	" ..	1758	E. C. Frazer, Sherbrooke.	12 "	1 50	Vendor.	
" 2	" .	1759	G. A. Codère, Megantic..	12 "	1 80	"	
" 9	" ..	1760	A. Vaillancourt, Waterloo	10 "	1 00	"	
" 15	" ..	1761	Dr. E. St. Jacques, St. Hyacinthe..... ..	12 "	1 20	"	
DISTRICT OF MONTREAL—							
Nov. 3	Tincture of Iodine.	58621	Arthur Clément, Notre Dame st., Lachine.	3 bot.	1 25	Vendor	
" 3	" ..	58622	Lachine Pharmacy, 370 St. Joseph st., Lachine.	3 "	1 00	"	
" 4	" ..	58623	J. Victor Richmond, 701 Wellington st., Lachine	3 "	1 20	"	
" 4	" ..	58624	J. A. Asselin, 516 Centre st., Montreal.	1 00		"	
" 4	" ..	58625	Dr. Gauthier, 665 Centre st., Montreal.	1 35		"	
DISTRICT OF VALLEYFIELD—							
Nov. 29	Tincture of Iodine.	58671	St. Onge, Pharmacy Valleyfield.	3 bot.	1 50	Vendor	
" 29	"	58672	Dr. J. I. A. Gauthier, Valleyfield.	3 "	1 35	"	
DISTRICT OF OTTAWA—							
Sept. 17	Tincture of Iodine.	59171	W. B. Clark, Druggist, Renfrew.	12 oz	1 00	Vendor.	
" 17	" ..	59172	D. J. Ritza, Renfrew.....	12 "	1 20	"	
Oct. 4	" .	59173	Clarence H. Lewis, Bay st., Ottawa.	12 "	1 20	"	
" 4	" .	59174	Fred Brethour, Bronson ave., Ottawa	10 "	1 00	"	
" 4	" ..	59175	Allen & Cochrane, Druggists, Bank and Gilmour sts., Ottawa.	12 "	1 20	Vendors	

SESSIONAL PAPER No. 14

TINCTURE OF IODINE.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Iodine %	Iodide of Potassium %	Alcohol. By Volume.	Alcohol. Kind.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. C. ROULEAU, INSPECTOR.						
	p.c.	p.c.	p.c.			
Bottle labelled Lyman, Knox & Co., Montreal.	2·12	2·20	67·69	Ethyl.....	1757	Genuine.
.....	2·85	2·03	82·45	" ...	1758	"
Decolourized.....	.....	.....	.....	.....	*1759	Not B. P. tincture. Doubtful.
.....	2·43	2·37	79·71	Ethyl.....	1760	Genuine.
.....	2·97	3·05	81·28	" ...	1761	"
D. J. KEARNEY, INSPECTOR.						
.....	2·38	2·79	78·48	Ethyl. ...	58621	Genuine.
.....	2·57	0·78	70·62	" ...	58622	Iodide of potassium too low. Adulterated.
.....	2·97	3·31	75·52	" ..	58623	Genuine.
.....	2·59	1·05	80·05	"	58624	Iodide of potassium too low, Adulterated.
.....	2·38	2·25	77·69	"	58625	Genuine.
D. J. KEARNEY, ACTING INSPECTOR.						
.....	1·55	2·73	78·48	Ethyl...	58671	Iodine too low. Adulterated.
.....	2·39	3·05	76·55	"	58672	Genuine.
J. A. RICKEY, INSPECTER.						
.....	2·55	2·45	78·48	Ethyl.	59171	Genuine.
.....	2·96	2·53	78·09	"	59172	"
.....	2·50	2·62	76·91	" ...	59173	"
.....	3·74	2·63	78·88	"	59174	"
.....	3·10	2·32	81·28	" ...	59175	"

* Labelled Tincture of Iodine, Decolourized.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer	Furnisher.
DISTRICT OF KINGSTON—							
1913.							
Sept. 22	Tincture of Iodine.	60041	W. H. Lattimer, Belleville.	12 oz.	100	Vendor.	
" 22	"	60042	F. C. Clarkes, Belleville.	12 "	120	"	
" 23	"	60043	O. G. Johns, Cobourg	12 "	120	"	
" 23	"	60044	H. W. Mitchell, Port Hope.	12 "	150	"	
" 24	"	60045	W. J. Kent, Peterboro	12 "	100	"	
DISTRICT OF TORONTO—							
Sept. 18	Tincture of Iodine.	57494	W. M. Adams, Queen & Duncan sts., Toronto.	10 oz.	90	Vendor	
" 22	"	57495	J. A. Gallagher, James & Gerrard sts., Toronto.	12 "	150	"	
" 22	"	57496	J. S. Dyer, 590 Dundas, st., Toronto.	12 "	75		
" 24	"	57497	J. W. Struthers & Sons, Arthur & Euclid sts., Toronto.	12 "	125	Vendors	
" 24	"	57498	W. Latimer, 462 Queen st., west, Toronto.	12 "	150	Vendor	
DISTRICT OF HAMILTON—							
Oct. 1	Tincture of Iodine.	50890	V. E. Christilaw, James & Cameron sts., Hamilton.	12 o	100	Vendor	
" 1	"	50891	Sweet & Dunlop, 270 King st., west, Hamilton.	12 "	120	"	
" 1	"	50892	R. C. Sexsmith, 240 York st., Hamilton.	12 "	110	Nat. Drug & Chemical Co., Ltd.	
" 2	"	50893	W. Ward, Simpson, 28 Market st. Brantford.	12 "	100	Vendor	
" 3	"	50894	Walker, Abbs & Co., 295 st. Paul, st., St. Catherines.	12 "	100	Vendors	
DISTRICT OF WINDSOR—							
Oct. 8	Tincture of Iodine.	54411	J. McRobie, Petrolia.	12 oz.	100	Vendor	
" 8	"	54413	Jackson & Co., Petrolia.	12 "	120	Vendors	
" 9	"	54428	G. G. Ingersoll, Sarnia.	12 "	100	Vendor	
" 9	"	54429	P. T. McGibbon, Sarnia.	12 "	100	"	
" 9	"	54434	H. Robertson, Sarnia.	12 "	120	"	

SESSIONAL PAPER No. 14

TINCTURE OF IODINE.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Iodine.	Iodide of Potassium.	Alcohol. By Volume.	Alcohol. Kind.		
JAS. HOGAN, INSPECTOR						
	p. c.	p. c.	p. c.			
	2·34	2·59	77·30	Ethyl	60041	Genuine.
	2·30	3·03	79·71	"	60042	"
	3·12	2·68	78·09	"	60043	"
	1·90	1·57	83·59	Ethyl 68·27 Methyl. 45·32	60044	Methyl alcohol present. Iodine too low. Adulterated.
	3·49	2·13	73·79	Ethyl	60045	Genuine.
H. J. DAGER, INSPECTOR.						
	2·66	2·78	80·88	Ethyl	57494	Genuine.
	2·77	2·76	81·28	"	57495	"
	2·89	2·91	79·71	"	57496	"
	2·64	2·45	75·79	"	57497	"
	2·59	2·57	80·10	"	57498	"
J. J. COSTIGAN, ACTING INSPECTOR.						
	2·52	2·39	81·28	Ethyl	50890	Genuine.
	2·13	2·90	65·86	"	50891	"
	2·46	2·44	76·24	"	50892	"
	2·50	2·66	86·44	Methyl	50893	Contains Methyl alcohol. Adulterated.
	3·26	2·61	79·32	Ethyl	50894	Genuine.
JNO. TALBOT, INSPECTOR.						
	3·03	2·79	75·70	Ethyl	54411	Genuine.
	2·82	2·86	81·60	"	54413	"
	2·67	2·44	77·69	"	54428	"
	2·69	2·61	82·37	"	54429	"
	3·19	2·86	80·10	"	54434	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF MANITOBA—							
1913.							
Oct. 6.	Tincture of Iodine.	48985	McLellan Drug Store, Selkirk ave., Winnipeg.	12 oz.	150	Vendor.	
" 6.	"	48986	North Main Pharmacy, Winnipeg.	12 "	150	"	
" 6.	"	48987	R. C. Jamieson, druggist, Ellice ave.	12 "	180	"	
" 6.	"	48988	Robinson Drug Store, Ellis and Sherbrooke st.	12 "	180	"	
" 7	"	48989	A. J. Brown & Co., Markest st.	12 "	180	"	
DISTRICT OF ROCKY MOUNTAINS—							
Oct. 3	Tincture of Iodine.	49968	Rutherford Drug Co., Nelson, B.-C.	12 oz.	180	Vendors.	
" 3.	"	49969	Canada Drug & Book Co., Nelson, B.C.	12 "	135	"	
" 17.	"	49976	N. E. Suddaby, Fernie.	12 "	135	Vendor.	
" 17.	"	49977	McLean Drug and Book Store, Fernie.	12 "	180	"	
Nov. 3.	"	49990	Thos. Stout, Rossland.	12 "	150	"	
DISTRICT OF VICTORIA—							
Oct 18.	Tincture of Iodine.	57643	Hall & Co., 702 Yates, st., Victoria, B.C.	12 oz.	150	Vendors.	
" 16.	"	57658	Ivels Pharmacy, 1415 Government, st., Victoria, B.C.	12 "	150	Vendor.	
" 16.	"	57659	Oak Bay Pharmacy, Oak Bay Junction, Victoria, B.C.	12 "	150	"	
" 17	"	57663	Terry's Drug Store, 705 Fort, st., Victoria, B.C.	12 "	150	"	
" 18	"	57669	Dean & Hiscock's, 627 Yates, st., Victoria, B.C.	12 "	150	Vendors.	

SESSIONAL PAPER No. 14

TINCTURE OF IODINE.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Iodine	Iodide of Potassium	Alcohol. Volume.	Alcohol. Kind.		
A. C. LARIVIÈRE, INSPECTOR.						
	p. c.	p. c.	p. c.			
.....	2·42	2·45	83·09	Ethyl...	48985	Genuine.
.....	2·69	2·83	80·49	" ...	48986	"
.....	2·95	2·97	83·43	"	48987	"
.....	2·59	2·56	78·48	"	48988	"
.....	2·94	2·91	83·43	" ...	48989	"
THOS. PARKER, INSPECTOR.						
.....	2·79	2·79	79·71	Ethyl.....	49968	Genuine.
.....	2·74	2·62	76·55	"	49969	"
.....	3·06	2·83	77·69	" ..	49976	"
.....	2·59	2·58	75·52	" ...	49977	"
.....	2·61	2·51	78·88	"	49990	"
D. O'SULLIVAN, INSPECTOR.						
.....	2·21	2·40	82·70	Ethyl.....	57643	Genuine.
.....	2·82	2·47	79·71	"	57658	"
.....	3·15	3·36	78·48	"	57659	"
.....	4·15	None.	75·88	Ethyl 58·60 Methyl 17·28	57663	Contains Methyl alcohol. Adulterated.
.....	2·69	2·47	78·09	Ethyl.. ..	57669	Genuine.

APPENDIX U

BULLETIN No. 278—INFANTS' AND INVALIDS' FOODS.

OTTAWA, February 19, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report dealing with 86 samples purchased as foods for infants and invalids, in June and July of last year.

This class of foods have been examined on two former occasions, viz: in 1898 (See Bulletin No 59) and in 1909 (See Bulletin No. 185).

They fall into three groups, essentially characterized by predominance of fat, protein or starch, and all of them are of value under certain conditions. Their economical use depends largely upon the intelligence with which they are used. Regarded merely from the point of view of nutrient value, they are undoubtedly expensive foods, but under the guidance of a physician or qualified nurse, they may be found economical or at least not unduly expensive.

Thirty different brands are represented by the work contained herein: and this report will be found helpful to mothers and to physicians. No adulteration has been found in any of these foods.

I would respectfully recommend its publication as Bulletin No. 278.

I have the honour to be, Sir,
Your obedient servant.

A. McGILL,
Chief Analyst.

BULLETIN No. 278—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
July 8	Infants and Invalids Food.	54122	Nat. Drug & Chem. Co., Halifax, N.S.	3 pkg.	60	Wells, Richardson Co., Montreal.	Manufacturers.
" 14	" ..	54123	Brown Bros., Halifax, N.S.	3 "	45	Keen Robertson Co., London, Eng.	N. D. & C. Co., Halifax, N.S.
" 14	" ..	54124	J. R. Rawley Estate, Halifax, N.S.	3 "	90	Allen & Hanburys, London, Eng.	"
" 15	" ..	54125	L. C. Gardner & Co., Yarmouth, N.S.	3 "	1.05	Smith, Klin & French, Philadelphie, Pa.	Unknown.
23 "	" ..	54126	W. H. Stevens, Dartmouth, N.S.	3 "	1.20	Ridges Food Co., Boston.	N. D. & C. Co. Halifax, N.S.
DISTRICT OF NEW BRUNSWICK—							
June 30	Infants and Invalids Food.	50621	The Nat. Drug & Chem. Co., Ltd., St. John, N.B.	3 pkg.	75	Keen Robinson & Co., London, E..	.....
" 26	" ..	50622	The Canadian Drug Co., Ltd., St. John, N.B.	3 "	1.50	J. R. Neave & Co., Fordingbridge, Eng.	.....
July 8	" ..	50623	R. T. Mack, Fredericton, N.B.	3 "	1.50	Horlicks Malted Milk Co., Racine, Wis., U.S.	.....
" 9	" ..	50624	Edgar W. Mair, Woodstock, N.B.	3 "	1.50	Allen & Hanburys, Ltd., London, Eng.	.....
" 23	" ..	50625	Fairweather Bros., Moncton, N.B.	3 "	1.50	Henri Nestle, Vevey, Switz.	.....
DISTRICT OF QUEBEC—							
June 23	Infants and Invalids Food.	37070	J. B. Giroux, 385 rue St. Joseph, Quebec.	3 box.	1.50	Nestle's Food, Switzerland.	J. E. Livernois.
" 23	" ..	37071	" " ..	3 "	1.50	Horlick's Malted Milk Co.	" ..
" 23	" ..	37072	" " ..	3 "	1.20	Lanentricia Lacken, Belgique.	" ..
" 23	" ..	37073	" " ..	3 "	1.95	Virol, Ltd., 155-156 Old st., London, Eng.	" ..
" 23	" ..	37074	" " ..	3 "	1.50	Allen & Hanburys, Ltd., London.	" ..
DISTRICT OF THREE RIVERS—							
June 20	Infants and Invalids Food.	58921	C. Barrette, Joliette....	3 pkg.	75	.....	T. Coursol, Montreal.
" 20	" ..	58922	" ..	3 "	75	Christie, Brown Co., Toronto.	.....
" 20	" ..	58923	" ..	3 "	1.50	Henri Nestle, Vevey, Switz.	Hudon, Hébert, Montreal.
" 20	" ..	58924	I. T. Gaudet, Joliette. .	3 "	1.50	Mellins M. F. G. Co., London, Ont	.....

SESSIONAL PAPER No. 14

INFANTS AND INVALIDS FOODS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Moisture.	Fat.	Proteids N x 6·25.	Ash.	Cold water Extractive.	Starch, etc., by difference.	Remarks.	No. of Sample.
R. J. WAUGH, INSPECTOR								
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
. ...	6·92	0·20	8·47	0·78	. . .	....	(Wheat Starch) Milk to be used with this food.	54122
Robertson's Patent Barley.	9·90	0·90	7·20	0·80	....	.....	(Barley Starch) Milk to be used with this food.	54123
....	5·30	0·62	9·67	0·80	14·95	68·66	(Wheat Starch) Milk to be used with this food.	54124
Eskay's Food.	3·00	1·30	6·83	0·91	52·75	35·21	(Arrowroot Starch) Milk to be used with this food.	54125
Over one year in stock...	6 45	0·22	10 02	0·49	3·91	78·91	(Wheat Starch) Milk to be used with this food.	54126
J. C. FERGUSON, INSPECTOR.								
Robinson's Patent Barley	9·00	0·92	7·22	0·72	.....	.....	((Barley Starch) Milk to be used with this food.	50621
... .	6·70	1·28	11·22	0·57	5·17	75·06	(Barley and Wheat Starches) Milk to be used with this food.	50622
Horlick's Malted Milk..	3 98	7·70	14·88	3·12	....	.....	To be used with water or milk as desired.	50623
Allenbury's Milk Food No. 2.	3 92	15·09	9·19	2 60	...	.....	To be used with water only....	50624
Nestle's Food	1·88	4·92	11·79	1·10	64 85	15·46	(Wheat Starch). To be used with water only.	506251
F. X. W. E. BÉLAND, INSPECTOR.								
... .	1·37	5·67	12 12	1·13	....	.....	(Wheat Starch).. To be used with water only.	37070
.. ..	2·98	8·08	15·18	3·34	....	.....	To be used with water or milk as desired.	37071
.. ..	67 23	0 16	6·83	1·67	21·79	2·32	To be used with water only. ...	37072
. ...	22·36	12·08	3·09	1·37	62·30	....	Milk to be used with this food for Infants.	37073
... .	3·17	15·83	9·34	3·01	.....	.....	To be used with water only....	37074
DR. V. P. LAVALLÉE, INSPECTOR.								
Peptonine	7·25	0·58	9·65	0·26	29·76	52·60	(Wheat Starch) Milk to be used with this food.	58921
Christie's.	5·52	3·02	7·28	0 82	.....	.. .	(Wheat Starch). To be used with water only.	58922
Nestle's	2·60	5·40	11·53	1·11	.....	....	(Wheat Starch). To be used with water only.	58923
. ...	2·95	0·10	19·83	3·30	87 42	....	Milk to be used with this food..	58924

BULLETIN No. 278—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF THREE RIVERS—							
1913.							
June 25	Infants' and Invalids' Food.	58925	Williams, Three Rivers.	1 box.	50	Allen & Hanbury, Ltd., London, Eng.	
July 1	"	58941	Isaac Giguère, Louisville.	3 box's	1.20	Wells, Richardson Co., Burlington, Vt.	
" 8	"	58985	Louis Pauzé, L'Assomption.	3 "	90	Christie, Brown Co., Toronto, Ont.	
" 8	"	58936	N. H. Lacasse, L'Assomption.	3 "	50	"	
" 10	"	58987	A. Amirault, L'Epiphanie.	3 "	75	"	
" 10	"	58988	Magnan et Chevalier, Joliette.	3 "	120	Henri Nestle, Vevey, Switz.	
DISTRICT OF EASTERN TOWNSHIPS—							
July 14	Infants' and Invalids' Food.	1623	F. Savary, Compton.	3 box's	75	Christie, Brown & Co., Ltd., Toronto, Ont.	
" 15	"	1624	A. E. Hurd, Ayers Cliff.	1 "	50	Horlicks Malted Milk Co., Racine, Wis.	
" 16	"	1625	A. H. Moore & Co., Magog.	3 "	60	McLarens Imperial Cheese Co., Ltd., Toronto.	
" 23	"	1626	J. A. Poulin, Beauce Junction.	3 "	1.50	Henri Nestle, Vevey, Switz.	
Aug. 1	"	1627	La Pharmacie Brodeur, St. Hyacinthe.	3 "	1.50	Fairchild Bros. & Foster, New York.	
DISTRICT OF MONTREAL—							
June 25	Infants' and Invalids' Food.	58711	O. Dowler, 300 St. Catherine st., west, Montreal.	3 pkgs	75	Keen Robinson Co., Ltd.	
"	"	58712	Isidore Gougeon, 368 Dorchester, west, Montreal	3 "	75	Christie, Brown Co. Ltd., Toronto	
July 2	"	58713	Ste. Anne de Bellevue Drug Store, St. Anne's.	3 "	1.50	Henry K. Wampole, Perth, Ont	
" 2	"	58714	Reynolds & Christie, 1295 Wellington st., Verdun.	3 "	75	Mack Smith, Hamilton.	
" 3	"	58715	S. Champagne, Drug Store, Wellington and Church ave., Verdun.	3 "	75	F. Coursol, 382 City Hall Ave., Montreal.	

SESSIONAL PAPER No. 14

INFANTS AND INVALIDS FOODS.

Inspector Report. (Is not an expression of Opinion.)	Results of analysis. Moisture.	Fat.	Proteids N x 6·25	Ash.	Cold water Extractive.	Starch, etc. by difference.	Remarks.	No. of Sample.
Concluded.								
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c		
....	3·78	16·58	10·17	3·04	..	.....	This sample had been transferred from orig. Can to paper box	58926
Lactated	6·20	0·20	8·42	0·77	32·02	52·39	(Wheat Starch) Milk to be used with this food.	58941
. ...	6·25	2·60	7·28	0·85	....	.....	(Wheat Starch) to be used with water only.	58985
. . . .	4·58	3·34	6·52	1·36	.	....	(Wheat Starch) to be used with water only.	58986
... ...	5·85	2·98	7·04	1·00	....	....	(Wheat Starch) to be used with water only.	58987
....	1·78	5·57	11·43	1·09	...	.....	(Wheat Starch) to be used with water only.	58988
J. C. ROULEAU, INSPECTOR.								
Christies.....	5·90	3·28	6·60	0·92	36·42	46·88	(Wheat Starch) to be used with water only.	1623
Malted Milk..... .	3·55	8·36	15·64	3·52	.	. . .	To be used with water or milk as desired.	1624
Peanut Butter	...	...	. . .		...	.	. . . .	*1625
Nestles	1·55	5·47	11·33	1·14	. .	... ..	(Wheat Starch) to be used with water only.	1626
Peptogenic Milk Powdor	0·65	trace.	0·81	1·11	89·93	7·50	(No Starch) to be used with milk.	1627
D. J. KEARNEY, INSPECTOR.								
Robinson's Patent Barley	9·78	0·96	6·74	0·78	5·18	76·56	(Barley Starch) Milk to be used with this food.	58711
Christies..... .	6·20	3·58	6·36	1·05	... .	. .	(Wheat Starch) To be used with water only.	58712
Milk Food...	.....	.. .	....	.....	.....	....	This sample is caked bad and is unfit for use.	*58713
Triticumina..... ..	8·57	1·08	12·69	0·50	6·19	71·17	(Wheat Starch) Milk to be used with this food.	58714
La Peptomine.....	7·42	0·56	8·17	0·28	36·34	47·23	(Wheat Starch) Milk to be used with this food.	58715

* Not analyzed.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF VALLEYFIELD—				
1913.							
July 15	Infants' and Invalids' Food.	58031	J. A. N. Bourassa, Valleyfield.	3 box's	75		
" 22	"	58032	I. Boyle, Alexandria	3 "	75		
" 22	"	58033	Brock, Ostrom & Son, Alexandria.	3 "	75	Wellis Richardson Co.	
" 26	"	58034	James Fortune, Huntingdon.	3 "	1 50	Nat. D. & C. Co., Ltd.	
" 26	"	58035	"	3 "	1 50		
			DISTRICT OF OTTAWA—				
Nov. 18	Infants'and Invalids' Food.	42900	T. T. Beattie, Ottawa	3 pkgs	3 00	Bauer & Co., Berlin, Germany.	
June 21	"	59101	W. H. Raney, Prescott	3 "	1 05	Woolrick & Co., Palmer, Mass.	Unknown
" 21	"	59102	S. E. Mills, Prescott	3 "	1 50	Bengers' Food, Ltd., Manchester	"
" 23	"	59103	Beattie & Argue, Ottawa	3 "	1 05	The Lacto Globulin Co., Montreal.	Mfrs
July 11	"	59104	D. J. Stalker, Ottawa	3 "	1 50	H.K.WampoleCo., Philadelphia, Pa.	"
" 11	"	59105	" "	3 "	1 05	W. C. Wagner, Brooklyn, N.-Y.	Unknown
			DISTRICT OF KINGSTON—				
June 23	Infants'and Invalids' Food.	57329	F. J. Hoag, Kingston	3 pkgs	1 50		
" 23	"	57330	G. W. Mahood, Kingston	3 "	90		
" 23	"	57331	W. W. Gibson, Kingston.	3 "	1 50		
" 24	"	57332	T. H. Sargent, Kingston.	3 "	1 50		
" 26	"	57333	W. J. Kent, Peterboro	3 "	1 05		
			DISTRICT OF TORONTO—				
June 24	Infants'and Invalids' Food.	57411	A. E. Patterson, Allendale.	3 pkgs	90		Unknown
" 24	"	57412	W. C. George, Orillia	3 "	1 50		Drug Trading Co., Ltd., Toronto.
" 25	"	57413	D. H. MacLaren, Barrie	3 "	1 50		Unknown
27	"	57414	J. E. Willis, Whitby	2 "	50		"
27	"	57700	Jury & Lovell, Oshawa	3 "	30	MacKay Milling Co., Bowmanville	

SESSIONAL PAPER No. 14

INFANTS AND INVALIDS FOODS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Moisture.	Fat.	Proteides N x 6·25.	Ash.	Cold water Extractive.	Starch, etc., by difference	Remarks.	No. of Sample.
J. J. COSTIGAN, ACTING INSPECTOR.								
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
Christies	5·55	3·06	6·98	1·10	36·43	46·89	(Wheat Starch) To be used with water only.	58031
Robinson's Patent Barley	10·20	0·98	6·78	0·72	.	.	(Barley Starch) Milk to be used with this food.	58032
Lactated	6·78	0·20	7·96	0·84	.	.	(Wheat Starch) Milk to be used with this food.	58033
Sugar of milk	2·22	.	.	trace.	97·78	.	.	58034
Nestles	2·33	5·38	12·21	1·11	.	.	(Wheat Starch) To be used with water only.	58035
J. A. RICKEY, INSPECTOR.								
Sanatogen	10·28	Trace.	79·30	5·68	.	.	(No Starch.) To be used with water only.	42900
Ridges' Patent Food	9·62	0·80	12·59	0·42	3·90	74·67	(Wheat Starch.) Milk to be used with this food.	59101
Bengers	8·02	0·34	11·66	0·85	11·85	67·28	" "	59102
Lacto Globulin	10·35	0·36	71·92	7·98	29·04	.	To be used with water only.	59103
Wampole's Milk Food	5·22	7·87	12·73	2·22	76·55	.	" "	59104
Nutritionum, Wagners	8·35	3·74	13·76	1·54	23·04	49·57	(Wheat Starch.) To be used with water or milk if desired.	59105
JAS. HOGAN, INSPECTOR.								
Nestle's Food	2·20	5·42	10·98	1·14	64·70	15·56	(Wheat Starch.) To be used with water only.	57329
Allenbury's Malted Food	4·45	0·74	9·95	0·80	18·32	65·74	(Wheat Starch.) Milk directed to be used with this food.	57330
Nestle's	2·23	5·18	11·27	1·08	.	.	(Wheat Starch.) To be used with water only.	57331
Horlick's Malted Milk	2·68	8·17	14·52	3·34	.	.	To be used with water or milk as desired.	57332
Allenbury's Malted Food	6·07	0·72	10·24	0·87	.	.	(Wheat Starch.) Milk directed to be used with this food.	57333
H. J. DAGER, INSPECTOR.								
Robinson's Patent Barley	10·33	0·92	6·57	0·75	.	.	(Barley Starch.) Milk to be used with this food.	57411
Allenbury Milk Food, No. 2.	3·10	16·27	9·56	2·87	67·45	0·75	To be used with water only.	57412
Lactated	7·20	0·22	7·13	0·83	29·90	54·72	(Wheat Starch.) Milk to be used with this food.	57413
The Royal Food for Infants.	9·90	0·34	9·65	0·54	5·75	73·82	(Barley Starch.) To be used with water or milk.	57414
Real Mackay Barley Milk.	12·30	1·02	10·36	1·24	7·80	67·28	(Barley Starch.) Milk to be used with this food.	57500

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer of Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF HAMILTON—				
1913.							
July 9	Infants' and Invalids' Food.	58841	Hawkins, Ltd., 6 Market square, Hamilton.	3 pkgs	75	Triangle Food Co., Hamilton.	
" 9	"	58842	John A. Barr & Co., 68 James st., north, Hamilton.	3 "	1 50	Fairchild Bros., & Foster, New-York.	
" 10	"	58843	T. A. L. Patourel, Brant st., Burlington.	3 "	1 50	Nat. Drug. & Chem. Co., Hamilton.	
" 15	"	58844	R. C. Sexsmith, 240 York st., Hamilton.	3 "	75	Keen Robinson & Co., Londres, Eng	
" 19	"	58845	Walker, Abbs & Co., St. Catherines	3 "	75	Christie, Brown & Co., Toronto.	
			DISTRICT OF WINDSOR—				
July 3	Infants' and Invalids' Food.	54843	M. M. Mitton, Ridgetown.	3 pkgs	1.50	Horlick's Malted Milk Co., Racine, Wis.	
" 3	" ..	54848	P. Bawden, Ridgetown..	3 "	1.05	Weir Specialty Co., Toronto.	
" 7	" ..	54850	A. J. McCall & Co., Chatham.	3 "	1.05	Unknown	Unknown
" 7	" ..	54851	J. G. Clark, Chatham ..	3 "	1.50	Allen & Hanburys, Londres, Eng.	
" 7	" ..	54852	W. W. Turner, Chatham.	3 "	1 50	Henri Nestle, Vevey, Switz.	
			DISTRICT OF MANITOBA—				
June 26	Infants' and Invalids' Food.	48885	J. N. Sommerville, William ave., Winnipeg.	3 pkgs	1.05	J. R. Neave & Co., Fordinbridge, Eng.	
July 2	" ..	48886	Connell & Co., Main st., Winnipeg.	3 "	1.20	Glaxo, 88 Gracechurch st., Londres, Eng.	
" 2	" ..	48887	" " ..	3 "	1.35	Horlick's Malted Milk Co., Racine, Wis.	
" 2	" ..	48888	J. R. Robinson, Sherbrooke st., Winnipeg.	3 "	1.20		
" 2	" ..	48889	E. Nesbitt, Sargent st., Winnipeg.	3 "	1.35	Allen & Hanburys, Ltd., W. London	
			DISTRICT OF ROCKY MOUNTAINS—				
July 3	Infants' and Invalids' Food.	49915	C. R. Macdonald, Revelstoke, B. C.	3 pkgs	1.50	Woolrich & Co., Palmer, Mass.	
" 3	" ..	49916	" " ..	3 "	1.50	Wells, Richardson & Co., Montreal.	
3	" ..	49919	Walter Bews, Revelstoke, B.C.	3 "	3.75	Smith, Klines & French Co., Philadelphia, Pa.	
" 16	" ..	49921	E. W. Hazlewood, Trail, B.C.	3 "	90	Keen, Robinson & Co., Londres, Eng	
16	" ..	49923	T. Stont, Rossland.....	3 "	1.50	Henri Nestle, Vevey, Switz.	

SESSIONAL PAPER No. 14

INFANTS AND INVALIDS FOODS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Moisture.	Fat.	Proteids N x 6·25.	Ash.	Cold water Extractive.	Starch, etc., by difference	Remarks.	No. of Sample.
D. M. CAMERON, INSPECTOR.								
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
Triangle	8·05	1·12	12 69	0·52	7·03	70 59	(Wheat Starch.) Milk to be used with this food.	58841
Peptogenic Milk Powder	0·80	Trace.	0·52	1 10	89·76	7 82	(No Starch.) To be used with milk.	58842
Sugar of Milk	1·80	...	...	Trace.	98·20	...	...	58843
Patent Barley	9·60	0·96	6 58	0·75	....		(Barley Starch.) Milk to be used with this food.	58844
...	5 85	2·82	6·94	1·06	...	...	(Wheat Starch.) To be used with water only.	58845
JNO. TALBOT, INSPECTOR.								
Horlick's Malted Milk	2·90	7 77	14·96	2·92	75 10	...	To be used with water or milk as described.	54843
Wematta	7·50	0 68	12 32	0 94	4 95	73·61	(Wheat Starch). To be used with water only.	54848
...	3·70	1·39	6·65	0·94	53·15	34 17	(Arrowroot Starch). Milk directed to be used with this food.	54850
Allenbury's Milk Food No. 2.	3 37	16·03	10 04	2 61	...	...	To be used with water only	54851
...	1·70	5·17	12·18	1·09	...	....	(Wheat Starch). To be used with water only.	54852
A. C. LARIVIERE, INSPECTOR.								
...	5 90	1 18	11 66	0 57	5 02	75·67	(Barley and Wheat Starches). Milk to be used with this food.	48885
...	2 25	25·66	26·51	4·88	43·30	...	To be used with water only	48886
...	3·72	8·37	14·79	3·19	...	...	To be used with water or milk as desired	48887
Nestle's	1 82	5·25	11·90	1·09	...		(Wheat Starch). To be used with water only.	48888
Allenbury's Milk Food No. 1.	2·72	17·80	10·13	3·45	66 50	...	To be used with water only	48889
THOS. PARKER, INSPECTOR.								
Dr. Ridge's Patent Food.	9·60	0·88	13·78	0·46	...	....	(Wheat Starch). Milk to be used with this food.	49915
Lactated	8·75	0 12	7·72	2·16	...	...	(Wheat Starch). Milk to be used with this food.	49916
Eskay's Albumenized	2 13	1·43	6·34	1 16	...	....	(Arrowroot Starch). Milk directed to be used with this food.	49919
Patent Barley	9·50	0·84	7 10	0·68	4·68	77 20	(Barley Starch). Milk to be used with this food.	49921
Nestle's	1·48	5 47	12 06	1 11	...	...	(Wheat Starch). To be used with water only.	49923

BULLETIN No. 278—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF VANCOUVER—	
1913.							
Aug. 9	Infants and Invalids Food.	54921	Harrison's Drug Store, 7th avenue and Granville, Vancouver.	3 pkgs	75	Canadian Milk Products, Toronto	.....
" 9	" ..	54922	Broadway Pharmacy, Broadway and Granville, Vancouver.	3 "	1.50	Horlick's Malted Milk Co., Racine, Wis.	.....
" 11	" ..	54923	Campbells, Ltd., Hastings and Granville, Vancouver.	3 "	75	Ridges, Ltd., London, Eng.	.....
" 11	" ..	54924	Brown & Dawson, Hastings st., Vancouver.	3 "	1.35	Allen & Hanburys, Ltd., London, Eng.	.....
" 12	" ..	54925	Leslie G. Henderson, Georgia and Granville, Vancouver.	3 "	1.50	Nestle's Food Co., Switzerland.	.....
						DISTRICT OF VICTORIA—	
July 16	Infants and Invalids Food.	57603	F. J. Williams, 613 Fort st., Victoria, B.C.	3 pkgs	75	.....	National Drug & Chemical Co., Victoria, B. C.
" 16	"	57604	F. J. Williams, 613 Fort st., Victoria, B.C.	3 "	1.50	Horlick's Malted Milk Co., Racine Wis.	.....
" 16	"	57606	Dean & Hiscocks, Victoria, B.C.	3 "	75	Keen Robinson Co., London, Eng.	.....
" 16	"	57607	Thos. Shotbolt, 589 Johnson st., Victoria, B.C.	3 "	1.50	Allan & Hanburys, Ltd., London, Eng.	.....
" 16	"	57608	W. J. Goode, 241 Johnson st., Victoria, B.C.	3 "	75	Keen Robinson & Co., London, Eng.	.....

SESSIONAL PAPER No. 14

INFANTS AND INVALIDS FOODS.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis. Moisture.	Fat.	Proteids N x 6·25.	Ash.	Cold Water Extractive.	Starch, etc., by difference	Remarks	No. of Sample.
J. F. POWER, INSPECTOR.								
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
A perfect split-proteid modification retaining the anti-scorbutic properties of Fresh Milk.	5·05	8·65	18·27	6·44	68·75	....	To be used with water only	54921
....	3·22	7·53	14·09	2·88	75·50	..	To be used with water or milk as desired.	54922
Prevents acidity.....	9·05	1·28	9·57	0·68	4·00	75·42	(Wheat Starch). Milk to be used with this food.	54923
A complete substitute for the mother's milk.	2·88	17·40	10·15	3·63	66·15	.....	To be used with water only....	54924
A perfect nutriment for Infants, Children and Invalids.	1·35	5·53	11·55	1·13	...	.. ..	(Wheat Starch). To be used with water only.	54925
D. O. SULLIVAN, INSPECTOR.								
Nestles	1·75	5·10	11·79	1·14	.....	.....	(Wheat Starch). To be used with water only.	57603
Horlick's Malted Milk..	2·50	8·37	14·57	3·48	.. .	.... .	To be used with water or milk as desired.	57604
Robinson's Patent Barley	6·85	7·64	12·38	1·54	17·75	53·84	(Rice Starch) For making gruel.	57606
Allenbury's Milk. Food No. 2.	4·55	15·07	9·30	3·04	69·55	....	To be used with water only.	57607
Robinson's Patent Barley	9·75	0·86	6·61	0·68	.....	.....	(Barley Starch) Milk to be used with this food.	57608

APPENDIX V

BULLETIN No. 279—FLOUR

OTTAWA, February 24, 1914.

WM HIMSWORTH, Esq,
Deputy Minister Inland Revenue.

SIR,—I have the honour to hand you a report upon 139 samples of flour purchased by our inspectors in September and October of last year.

One of the questions sought to be solved by the inspection is the moisture content of flour as ordinarily found on the Canadian market. Many complaints of the ready spoilage of flour have been received. (See Departmental file 104959). Twelve samples were specially enclosed in such a way that they could not lose moisture in transit, or while in storage with us. These samples show an average of 12·92 per cent moisture and three of them contain over 13 per cent. The remainder of the collection was contained in paper bags, and these samples show a pretty uniform content of moisture varying from 9·5 to 10·5 per cent, the average content being close upon 10 per cent.

Standards for flour as published in Circular G. 932, fix 13·5 per cent as a maximum amount of moisture; and only one sample of this collection shows any excess. (No. 59191). There can be no doubt, however, that even this is undesirably high, and is especially high, for shipment in hot weather, or to tropical climes.

Ash is fixed at 1 per cent as a maximum by our standards. Four samples show excess. Two of these are whole wheat flours, and should have been sold as such. The ash is not excessive for this class of flour. The other two contain added phosphates, and one of them appears to contain alum. These are so-called self raising flours.

Two samples show organic nitrogen very slightly below the minimum fixed by standard, viz: 1·25 per cent.

Flours showing as much as two (2) parts per million of nitrite-reacting nitrogen are probably bleached by the use of oxides of nitrogen. Seven samples fall into this class.

When more than two parts nitrite nitrogen per million is found, this is held to be proof of bleaching. Three (3) samples of this collection are to be regarded as bleached. Such samples should have been sold not as "Flour", but as "Bleached Flour".

An extended investigation of bleached flours was made in these laboratories in 1910, and the results are published as Bulletin No. 206. We have no legislation in Canada prohibiting the bleaching of flour; but bleached flour is defined by Order in

Council of 29th October 1910 : and it is therefore illegal to sell a bleached flour under any other name.

There is nothing to justify declaration of adulteration in any case.

I beg to recommend publication of this report as Bulletin No. 279.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF NOVA SCOTIA—	
1913.							
Oct. 13	Flour.	54336	Cain Bros., Yarmouth, N.S.	3 lb	12	Campbell M. Co., Toronto.	Manufacturers.
" 15	"	54337	Roach & Barteaux, Annapolis, N.S.	3 "	12	Maple Leaf M. Co., Toronto.	"
" 16	"	54338	R. H. Dodge & Co., Kentville, N.S.	3 "	12	Canadian Cereal M. Co., Toronto.	R. E. Harris Wolfville, N.S.
" 16	"	54339	Shand Bros., Windsor, N.S.	3 "	12	Quaker Oats Co., Peterboro.	Manufacturers.
" 16	"	54340	Canada Food Co., Windsor, N.S.	3 "	12	Dominion F. M. Co., Montreal.	"
" 16	"	54341	J. Lynch & Son, Windsor, N.S.	3 "	12	McLeod Milling Co., Stratford.	Jno. Tobin & Co., Halifax, N.S.
" 23	"	54342	Wentzells, Ltd., Halifax, N.S.	3 "	11	Platsville M. Co., Platsville, Ont.	Manufacturers.
" 23	"	54343	A. L. Doyle & Co., Halifax, N.S.	3 "	12	T. H. Taylor Co., Chatham, Ont,	"
" 23	"	54344	Wm. Moore, Halifax, N.S.	3 "	11	McLeod Milling Co., Stratford.	"
" 23	"	54345	Ritcey & Corkum, Halifax, N.S.	3 "	10	T. H. Taylor Co., Chatham, Ont.	"
						DISTRICT OF NEW BRUNSWICK—	
Sept. 25	Flour.	50352	2-Barkers, Ltd., St. John, N.B.	3 lb	10	Platsville M. Co., Platsville Ont.	
" 25	"	50353	"	3 "	10	Peterboro Cereal Co., Peterboro.	
Oct. 3	"	50354	J. V. Holland, St. John, N.B.	3 "	12	Canadian Cereal & F. M., Ltd., Toronto.	
" 8	"	50355	P. F. McKenna, St. Stephen, N.B.	3 "	15	"	
" 14	"	50356	M. E. Doohan, Fredericton N.B.	3 "	15	Campbell F. M. Co., West Toronto.	
" 15	"	50357	J. M. Fripp, Woodstock, N.B.	3 "	10	Meduxnakeag Mills, J. M. Fripp, Woodstock, N.B.	
" 21	"	50358	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	15	Ogilvie's, Montreal.	
" 21	"	50359	"	3 "	15	Western Canada F. M., Montreal.	
" 22	"	50360	J. A. Marven, Ltd., Moncton, N.B.	3 "	Nil.	Unknown	Unknown
" 23	"	50361	J. B. Snowball Co., Ltd., Chatham, N.B.	3 "	15	S. J. Cherry, Preston, Ont.	
						DISTRICT OF QUEBEC—	
Sept 23	Flour	56134	J. Pepin, 132 rue Massue, Que.	2 lb	12	Unknown	Kirouack & Fils.
" 4	"	56135	O. Bacon, 28 rue Hermine, Que.	2 "	7	"	P. T. Busière
" 6	"	56136	Ph. Boulet, Grant & Desprairie, Que.	2 "	...	"	M. A. Lachance
" 26	"	56137	W. Dobie, 31 rue Laliberté, Que.	2 "	7	"	Bégin & Frère

SESSIONAL PAPER No. 14

FLOUR.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis. Moisture.	Ash.	Nitrogen.	Proteid N x 5·7.	Nitrite reacting nitrogen. Parts per million.	Calculated as $NaNO_2$	Container.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.									
	p. c.	p. c.	p. c.						
Cream of the wheat...	10·10	0·41	2·02	11·50	None.		In paper bags	54336	
King's Quality.....	9·82	0·39	2·04	11·62	"		"	54337	
Rainbow.	9·92	0·37	2·03	11·57	"		"	54338	
Victor.	9·52	0·41	1·93	11·00	0·2	1·0	"	54339	
Regal	9·72	0·36	2·07	11·79	None.		"	54340	
McLeod's Special....	10·00	0·44	1·96	11·16	"		"	54341	
Swansdown	9·90	0·44	1·75	9·98	"		"	54342	
Beaver.	9·92	0·51	1·92	10·94	"		"	54343	
McLeod's Special ...	9·75	0·38	1·91	10·89	0·1	0·5	"	54344	
Beaver.....	9·90	0·47	2·04	11·62	None		"	54345	
J. C. FERGUSON, INSPECTOR.									
Strathcona Blend. ...	11·25	0·47	1·77	10·08	0·1	0·5	In paper bags.	50352	
Chariot....	9·60	0·39	1·94	11·05	0·2	1·0	"	50353	
Goldies Star	10·20	0·44	1·76	10·02	None.		"	50354	
Primrose.....	9·92	0·41	2·08	11·85	"		"	50355	
Monarch.	9·70	0·46	1·50	8·54	"		"	50356	
Primrose.....	9·92	0·60	2·15	12·25	"		"	50357	
Royal Household	10·10	0·37	2·07	11·79	"		"	50358	
Morwena.....	10·00	0·48	1·47	8·37	"		"	50359	
Biscuit	9·92	0·42	1·46	8·32	"		"	50360	
Jersey Lilly	10·42	0·41	1·87	11·65	"		"	50361	
F. X. W. E. BÉLAND, INSPECTOR.									
....	10·25	0·43	1·60	9·11	Trace		In paper bags.	56134	
.. . .	10·05	0·42	1·44	8·20	0·1	0·5	"	56135	
....	9·87	0·47	1·55	8·83	None.		"	56136	
....	9·95	0·37	1·43	8·14	"		"	56137	

BULLETIN No. 279—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF QUEBEC—				
1913.							
Sept. 29	Flour	56138	J. A. Talbot, 410 rue de la Reine, Quebec.	2 lb.	7	Unknown	J. B. Renaud & Cie.
" 29	"	56139	Elz. Couture, 124 rue Caron, Quebec.	2 "	6	"	W. Carrier & Fils.
" 29	"	56140	G. H. Turcot, 92 rue Caron.	2 "	7	"	P. T. Busière & Cie.
" 29	"	56141	Mad. P. Dubuc, 131 rue Charest, Quebec.	2 "	6	"	W. A. Lachance
" 29	"	56142	Emile Jalbert, 16 rue Dorchester.	2 "	8	"	W. A. Lachance
" 29	"	56143	Jas. J. Goslin, 50 rue Dorchester.	2 "	7	"	W. Carrier & Fils.
			DISTRICT OF THREE RIVERS—				
Sept. 18	Flour	59716	J. O. Davian, Berthierville.	2 lb.	8	W. Snider, Waterloo, Ont.	
" 18	"	59717	A. L. Caisse, Berthierville.	2 "	8	F. O. Lamarche, Berthierville.	
" 19	"	59718	O. Paquette, Berthierville.	3 "	15		Unknown
" 20	"	59719	J. S. Bayeur, Berthierville.	3 "	15		Viau et Frere, Montreal.
" 20	"	59720	F. O. Lamarche, Berthierville.	2 "	10	Alex. Brown, M. & E. Co., Toronto.	
" 20	"	59721	J. R. Coyle, Berthierville.	3 "	10	Ogilvie, F. M. Co., Montreal.	
" 22	"	59722	J. N. Read, St. Felix de Valois.	2 "	10	Seaforth, M. Co., Ltd Ont.	
" 22	"	59723	Louis Emos, St. Félix de Valois	2 "	8	Wm. Scott, Ottawa	
" 24	"	59725	Camille Barrette, Joliette.	2 "	6	Alex. Brown, M. & E. Co., Toronto.	
" 24	"	59741	Magnan & Frères, Joliette.	2 "	6	Alex. Brown, M. & E. Co., Toronto.	
			DISTRICT OF EASTERN TOWNSHIPS				
Sept. 29	Flour	1718	F. Lavigne, Victoriaville.	2 lb.	6	Canadian Cereal & M., Ltd., Toronto.	F. J. B. Paradis, agent, Victoriaville.
Oct. 2	"	1719	Eus. Huard & Cie., Megantic.	2 "	6	L. of the Woods M. Co., Montreal.	
" 3	"	1720	Cookshire Flour Mills Co., Cookshire.	2 "		Vendors.	
" 6	"	1721	Dme A. Vaillancourt, Coaticook.	2 "	7		D. S. Banchaud, Coaticook.
" 7	"	1722	The Daly Grocery Co., Stanstead.	2 "	8	L. of the W. M. Co., Montreal.	J. B. Paradis & Fils, Stanstead
" 9	"	1723	J. A. Coté, Granby	2 "	7		Mercure & Frère.
" 9	"	1724	Geo. F. Lebrocy, Waterloo, P.Q.	2 "	7	L. of the W. M. Co., Montreal.	

SESSIONAL PAPER No. 14

FLOUR.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis. Moisture.	Ash.	Nitrogen.	Proteids N x 5·5	Nitrite reacting Nitrogen. Pts. per million.	Nitrite reacting Nitrogen. Calculated as $NaNO_2$	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
F. X. W. E. BÉLAND, INSPECTOR—*Concluded.*									
	p. c.	p. c.	p. c.						
	9·77	0·48	1·66	9·46	None.		In paper bags	56138	
	10·05	0·40	1·41	8·03	"		"	56139	
	10·02	0·29	1·73	9·85	"		"	56140	
	9·87	0·45	1·47	8·37	"		"	56141	
	9·57	0·67	2·29	13·05	"		"	56142	
	9·67	0·27	1·68	9·57	"		"	56143	
DR V. P. LAVALLÉE, INSPECTOR.									
	9·85	0·53	1·80	10·25	None.		In paper bags.	59716	
	9·62	0·57	1·64	9·35	"		"	59717	
Crescent self raising flour.	9·60	4·01	1·56	8·88	0·2	1·0	"	59718	Is a self-raising flour.
	9·52	2·67	1·45	8·26	0·1	0·5	"	59719	" "
	9·60	0·48	1·85	10·53	None.		"	59720	
Glenora	9·70	0·53	2·24	12·75	"		"	59721	
	9·85	0·44	1·45	8·26	"		"	59722	
Polar Star	9·80	0·56	2·14	12·20	"		"	59723	
	9·62	0·56	1·60	9·11	"		"	59725	
	9·55	0·51	1·63	9·28	"		"	59741	
J. C. ROULEAU, INSPECTOR.									
	9·67	0·44	2·14	12·19	None.		In paper bags.	1718	
	9·62	0·37	2·35	13·39	"		"	1719	
Graham Flour	9·85	1·42	2·11	12·02	"		"	1720	Whole wheat flour.
	10·17	0·46	1·49	8·49	"		"	1721	
	10·10	0·40	2·16	12·30	"		"	1722	
	9·65	0·29	1·62	9·24	"		"	1723	
	9·92	0·36	2·11	12·02	"		"	1724	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost.. Quantity.	Cost.. Cents.	Name and address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS							
1913.							
Oct. 9	Flour. ..	1725	L. Bergeron, Waterloo, P Q.	2 lb ..	6	St. Lawrence M. Co., Montreal.	.. ..
" 10	"	1726	Gosslin et Paradis, Magog.	2 " .	7	Dominion F. M. Ltd.	. . ...
" 14	"	1727	S. Rousseau, St-Hyacinthe.	2 " .	...	Vendor....	....
DISTRICT OF MONTREAL—							
Oct. 21	Flour.....	58626	F. Dumouchel, 244 Church, ave. Verdun.	2 lb...	12	....	Brodie & Harvey. Montreal.
" 21	"	58627	J. Bonefant, 425 Church ave., Verdun.	2 " ..	8	....	" ..
" 21	"	58628	P. Brunet, 481 Church ave., Verdun.	2 " ..	8	....	" .
" 21	"	58629	P. Lajoie, 514 Church ave., Verdun.	2 " ..	8	....	St. Germain, Montreal.
" 21	"	58630	L. LeBeauce, 143 Church ave., Verdun.	2 " ..	8	....	Brodie & Harvey, Montreal.
" 21	"	58631	D. Legault, 1220 Wellington st., Verdun.	2 " ..	8	....	" .
" 21	"	58632	N. Gauthier, 1218 Wellington st., Verdun.	2 " ..	8	....	" ..
" 21	"	58633	O. Montpetit, 1265 Wellington st., Verdun.	2 " ..	8	....	Lavière & frère, Montreal.
" 31	"	58634	Trudeau et frère, 302 Charlevoix st., Verdun	2 " ..	9	.. ..	Brodie & Harvey, Montreal.
" 31	"	58635	Taylor & Peacock, 330 Charlevoix st., Verdun	2 " ..	8	Lake of the Woods, Montreal.	....
DISTRICT OF OTTAWA							
Sept. 23	Flour.....	59191	Renfrew Flour Mills, Ltd., Pakenham.	3 lb..	10	Vendors	
" 30	"	59192	McDonald Bros., ave. Gladstone, Ottawa.	2 " ..	8	Ogilvies, Ottawa....	Manufacturers..
" 30	"	59193	M. Greenberg, Bank st., Ottawa.	3 " ..	12	Unknown.....	Dover, Ottawa..
" 30	"	59194	W. D. Ardley, Bank st., Ottawa.	3 " ..	12	Lake of the Woods M. Co., Ottawa.	Manufacturers..
" 30	"	59195	" "	3 " ..	12	Canadian Cereal & Mills Ltd., Ottawa.	"
" 30	"	59196	" "	3 " .	12	Ont. & Manitoba F. Mills Ltd., Ottawa.	"
" 30	"	59197	" "	3 " ..	12	Maple Leaf Milling Co., Ltd., Ottawa.	"
" 30	"	59198	" "	3 " ..	12	"	"
" 30	"	59199	" "	3 " ..	12	Western Canada F. Mills Co., Ottawa	"
Oct. 9	"	59211	J. W. McKay, Wellington st., Ottawa.	3 " ..	10	Ogilvies, Ottawa ...	"

SESSIONAL PAPER No. 14

FLOUR.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Moisture.	Ash.	Nitrogen.	Proteid N x 5·7	Nitrite reacting nitrogen. Pts. per million.	Calculated as NO_2 Na	Container.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. C. ROULEAU, INSPECTOR—*Concluded.*									
	p. c.	p. c.	p. c.						
.....	10·02	0·38	2·02	11·50	None.	...	In paper bags.	1725	
.....	9·95	0·40	2·18	12·41	"	...	" ..	1726	
.....	9·80	0·44	1·83	10·42	"	.....	" ..	1727	
D. J. KEARNEY, INSPECTOR.									
.....	9·30	0·48	1·43	8·14	0·8	4·0	In paper bags.	58626	Bleached.
.....	9·85	0·63	1·47	8·38	0·4	2·0	" ..	58627	Probably bleached.
.....	9·50	0·47	1·46	8·32	0·4	2·0	" ..	58628	"
.....	9·52	0·42	1·44	8·20	0·1	0·5	" ..	58629	
.....	10·17	0·58	1·51	8·60	0·4	2·0	" ..	58630	Probably bleached.
.....	9·67	0·44	1·48	8·44	0·8	4·0	" ..	58631	Bleached.
.....	9·55	0·46	1·40	7·97	None.	.....	" ..	58632	
.....	9·82	0·43	1·65	9·40	"	.....	" ..	58633	
.....	10·00	0·52	1·55	8·84	0·4	2·0	" ..	58634	Probably bleached.
.....	10·17	0·41	1·50	8·55	0·6	3·0	" ..	58635	Bleached.
J. A. RICKEY, INSPECTOR.									
White Star.....	14·12	0·44	1·86	10·60	None.	.....	In tins.	59191	Moisture high.
Glenora.....	13·42	0·49	1·99	11·35	"	.....	"	59192	
High Loaf.....	13·45	0·64	1·99	11·35	"	....	"	59193	
Five Roses, guaranteed unbleached.	9·67	0·39	2·13	12·12	"	...	In paper bags.	59194	
Rainbow.....	9·52	0·38	2·09	11·91	"	..	" ..	59195	
Body Builder.....	9·50	0·39	1·99	11·35	"	....	" ..	59196	
Castle.....	9·47	0·44	2·16	12·30	"	....	" ..	59197	
Quality.....	9·42	0·38	1·94	11·05	"	.	" ..	59198	
Purity, labelled unbleached.	9·57	0·38	2·02	11·50	"	.....	" .	59199	
Royal Household.....	9·65	0·34	1·97	11·22	"	..	" ..	59211	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—							
1913.							
Sept. 22	Flour	60016	C. Rathman, Belleville.	2 lb	8	Western Canada, Goderich.	
" 22	"	60017	A. G. Vermilylea, Belleville.	2 "	7	C. Smith, Campbellford.	
" 22	"	60018	F. O. Diamond Belleville.	2 "	6	Cooper, Belleville	
" 23	"	60019	F. McIntosh, Cobourg..	2 "	8	Pratte, Cobourg.	
" 23	"	60020	M. C. Nichols, Cobourg.	2 "	7	"	
" 23	"	60021	The Thompson Mac Donald, Cobourg.	2 "	10	"	
" 23	"	60022	S. Sleeman, Port Hope.	2 "	5	Watkford, Carton	
" 23	"	60023	T. H. Brown, Port Hope.	2 "	6	Balbraiths, Port Hope.	
" 24	"	60024	P. S. White, Peterboro.	2 "	8	R. Denne, Peterboro	
" 24	"	60025	J. R. Bell, Peterboro.	2 "	10	Peterboro Cereal Co. Peterboro,	
DISTRICT OF TORONTO—							
Sept. 22	Flour	57511	Cameron & Fowler, 36 Pope ave., Toronto.	2 lb	8	The Alex. Brown M. & E. Co., Ltd., Toronto.	
" 22	"	57512	C. T. Simpson, 960 Gerard st. east, Toronto...	2 "	10	Lake of the Woods M. Co., Ltd., Keewatin.	
" 22	"	57513	H. Bracken & Son, 1020 Dundas st., Toronto.	2 "	10	Western Flour M. Co., Toronto.	
" 23	"	57514	Hammett & Harper, 652 Dufferin st., Toronto.	2 "	5	D. W. Reid & Son, Streetsville.	
" 23	"	57515	Lake of the Woods Co., Ltd., 221 Dupont st. Toronto.	2 "	5	Vendors	
" 23	"	57516	Maple Leaf Milling Co., Ltd., 200 Board of Trade Bldg., Toronto.	2 "	5	"	
" 23	"	57517	Canadian Cereal Flour Mills, Ltd., 285 Howland ave., Toronto.	2 "	5	"	
" 23	"	57518	John Williamson, 514 Bloor st. West, Toronto.	2 "	13		The Campbell F. M. Co., Ltd., Toronto.
" 24	"	57519	A. Brock, 52 Arthur st., Toronto.	2 "	5	Ogilvie M. Co., Ltd., Montreal.	
" 24	"	57520	The Alex. Brown M. & E. Co., Ltd., Esplanade st., Toronto.	2 "	7	Vendors	

SESSIONAL PAPER No. 14

FLOUR.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis. Moisture.	Ash.	Nitrogen.	Proteid N x 5·7.	Nitrite reacting Nitrogen. Pts. per million.	Calculated as $NaNO_2$	Container	No. of Sample.	Remarks and Opinion of the Chief Analyst.
JAS. HOGAN, INSPECTOR.									
	p. c.	p. c.	p. c.						
.. ..	9·25	0·37	2·03	11·56	None.	.. ..	In paper bags.	60016	
.. ..	9·17	0·46	1·74	9·91	"	.....	"	60017	
.. ..	8·92	0·44	1·40	7·97	"		"	60018	
....	9·30	0·38	2·14	12·20	"	.. ..	"	60019	
.. ..	9·32	0·43	1·35	7·69	"	.....	"	60020	
.. ..	9·37	0·42	1·35	7·69	"	...	"	60021	
....	9·37	0·41	1·21	6·89	"	..	"	60022	Nitrogen low.
....	9·12	0·40	1·35	7·69	"	..	"	60023	
.. ..	9·32	0·44	1·19	6·78	"	.....	"	60024	Nitrogen low.
.. ..	9·30	0·45	1·41	8·03	0·1	0·5	"	60025	
H. J. DAGER, INSPECTOR.									
White Rose	9·65	0·48	1·49	8·49	None.	.....	In paper bags.	57511	
Five Roses	9·59	0·34	2·17	12·37	"	.. ..	"	57512	
Crown	9·72	0·44	1·55	8·83	"	.. ..	"	57513	
.. ..	9·37	0·48	2·12	12·09	"	.....	"	57514	
Harvest Queen	9·20	0·43	2·31	13·17	"	.....	"	57515	
King's Quality	9·22	0·37	2·11	12·02	"		"	57516	
Rainbow	10·37	0·36	1·97	11·23	0·1	0·5	"	57517	
Monarch	9·15	0·43	1·45	8·26	None.	.. ..	"	57518	
Royal Household	9·60	0·34	1·96	11·18	"	.. ..	"	57519	
Osgoode	9·47	0·37	1·53	8·72	0·4	2·0	"	57520	Probably bleached

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1913.							
Oct. 2	Flour	50845	S. Simons, 67 Colborne st., Brantford.	2 lb	6	R. A. Thompson, Brantford.	
" 2	"	50846	"	2 "	5	"	
" 2	"	50847	George Cooper, 135 Market st., Brantford.	2 "	5	Wood Bros., Brantford.	
" 2	"	50848	W. D. Davidson, 259 St. Paul st., St. Catherines	2 "	10	Maple Leaf Co., Ltd.	
" 2	"	50849	"	2 "	10	Canadian Cereal Co.	
" 2	"	50850	"	2 "	10		
" 2	"	50851	"	2 "	10	Caledonia M. Co.	
" 2	"	50852	Henry & Glockin, Church st., St. Catherines.	2 "	8	J. K. Black.	
" 2	"	50853	"	2 "	8	Maple Leaf M. Co., Ltd.	
" 2	"	50854	F. R. Hall, 97 Geneva st., St. Catherines.	2 "	8	Jameson Black & Son	
DISTRICT OF WINDSOR—							
Oct. 8	Flour	54401	J. C. Bell, Petrolia	3 jars.	6	D. Lambert & Sons, Oil Springs.	
" 8	"	54402	" "	3 "	6	N. H. Stevens, (Kent Mills), Chatham.	
" 8	"	54403	" "	3 "	6	Ogilvie Co.	
" 8	"	54404	" "	3 "	6	Canadian Cereal & M Co., Tillsonburg	
" 13	"	54888	Jas. Twitchen, London	3 "	8		J. Schoenhalas, Clinton.
" 13	"	54890	" "	3 "	8	Arva Roller M. Co., Arva, Ont.	
" 13	"	54891	" "	3 "	8	Lucan Milling Co., Lucan, Ont.	
" 13	"	54892	Reid & Marshall.	3 "	8	Empire Milling Co., St. Thomas.	
" 13	"	54893	" "	3 "	8	Lake of the Woods M. Co., Keewatin	
DISTRICT OF MANITOBA—							
Sept. 30	Flour	48976	The Ogilvie F. M. Co., Ltd., Winnipeg.	2 lb	Nil.	Vendors	
Oct. 2	"	48977	Western Canada F. M. Co., Ltd., St. Boniface.	3 "	"	"	
" 8	"	48978	C. E. Bragg, Elmwood P. O.	3 "	30	Lake of the Woods Milling Co., Ltd., Keewatin.	
" 8	"	48979	J. Paterson, Elmwood P. O.	3 "	25	Leitch, Oak Lake.	
" 8	"	48980	" "	3 "	25	Ogilvie F. M. Co., Ltd., Winnipeg.	

SESSIONAL PAPER No. 14

FLOUR.

Inspector's Report, (Is not an expression of Opinion).	Results of Analysis.						Container.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.	Nitrogen.	Proteid N x 5·7.	Nitrite reacting nitrogen. Pts. per million.	Nitrite reacting nitrogen. Calculated as $NaNO_2$			
J. J. COSTIGAN, ACTING INSPECTOR.									
	p. c.	p. c	p. c.						
Astor	9·77	0·48	1·86	11·60	None.		In paper bags.	50845	
Delight	9·75	0·53	1·80	11·25	"		"	50846	
	9·62	0·43	1·40	7·97	0·4	2·0	"	50847	Probably bleached.
King's Quality	9·95	0·41	2·07	11·79	None.		"	50848	
Rainbow	9·52	0·34	2·11	12·02	"		"	50849	
Robinhood	9·95	0·38	1·98	11·28	"		"	50850	
Bridal Veil	9·87	0·45	1·64	9·35	"		"	50851	
Herald	9·42	0·44	1·86	11·60	"		"	50852	
Perfection	10·02	0·45	1·91	11·88	"		"	50853	
	9·75	0·42	1·86	11·60	"		"	50854	
JOHN TALBOT, INSPECTOR.									
Gold Dust	12·70	0·44	1·80	10·26	None.		In glass jars	54401	
Kent Mills	12·80	0·42	1·72	9·80	"		"	54402	
Royal Household	12·67	0·35	2·00	11·40	"		"	54403	
Rainbow	12·75	0·35	1·95	11·12	"		"	54404	
Maple Leaf	12·77	0·45	1·95	11·12	0·1	0·5	"	54889	
Daisy	12·75	0·40	1·67	9·52	None.		"	54890	
Delight	12·52	0·26	1·80	10·26	"		"	54891	
Sunbeam	12·40	0·33	1·76	10·02	0·4	2·0	"	54892	Probably bleached.
Five Roses	12·70	0·36	2·03	11·58	None.		"	54893	
A. C. LARIVIÈRE, INSPECTOR.									
	9·77	0·38	1·95	11·10	None.		In paper bags.	48976	
	10·25	0·36	1·98	11·28	"		"	48977	
	10·17	0·39	2·12	12·07	"		"	48978	
Anchor	9·90	0·45	2·17	12·36	Trace.		"	48979	
	9·65	0·35	2·07	11·79	None.		"	48980	

BULLETIN No. 279—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Adress of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher
DISTRICT OF MANITOBA—							
1913.							
Oct. 24	Flour.	48981	T. Brown & Co., Pembina ave., Winnipeg.	3 lb.	30	Western Canada F. M. Co., Ltd.	
" 24	"	48982	" "	3 "	30	Ogilvie F. M. Co., Winnipeg.	
" 27	"	48983	Western Canada F. M. Co., Brandon.	3 "	Nil.	Vendors	
" 27	"	48984	The Maple Leaf M. Co., Brandon.	3 "	"	"	
" 28	"	48990	Francis Bros., Norwood grove.	3 "	30	Western Canada F. M. Co.	
DISTRICT OF ROCKY MOUNTAINS							
Oct. 2	Flour	49955	Bell Trading Co., Nelson, B.C.	3 lb.	25	Ogilvie M. Co., Winnipeg.	
" 2	"	49956	"	3 "	25	Lake of the Woods M. Co., Winnipeg.	
" 2	"	49957	"	3 "	25	Maple Leaf M. Co., Toronto.	
" 2	"	49958	"	3 "	25	Western Canada F. M. Co., Winnipeg.	
" 2	"	49959	"	3 "	25	Robinhood M. Co., Calgary.	
" 2	"	49960	"	3 "	25	Brackman Ker M. Co., Calgary.	
" 17	"	49982	Trites Wood Co., Fernie, B.C.	3 "	25	Medicine Hat M. Co., Medicine Hat.	
" 17	"	49983	"	3 "	25	Robinhood M. Co., Calgary.	
Nov. 3	"	49992	Union Co-op. Assocn., Rossland.	3 "	25	"	
" 3	"	49993	"	3 "	25	Centennial Mills, Spokane, Wash.	
DISTRICT OF VICTORIA							
Oct. 29	Flour	57672	Windsor Grocery Co., 517 Govt. st., Victoria, B.C	3 lb.	12½	Royal Standard M. Co., Vancouver, B.C	
" 29	"	57673	"	3 "	12½	The Portland F. M. Co., Albany, Or.	
" 29	"	57677	The West End Grocery Co., Ltd., 1002 Govt. Victoria, B.C.	3 "	20	Vancouver M. & Grain Co., Ltd., Vancouver, B.C.	
" 29	"	57681	Fenerty Bros., Oak Bay Junction, Victoria, B.C.	3 "	15	Ogilvie F. M. Co., Medicine Hat.	
Nov. 5	"	57688	H. O. Kirkham, 714 Fort st., Victoria, B.C.	3 "	15	Vancouver M. & Grain Co., Ltd., Vancouver, B.C.	

SESSIONAL PAPER No. 14

FLOUR.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Moisture.	Ash.	Nitrogen.	Proteid N. x 5·7.	Nitrite reacting Nitrogen. Pts. per million.	Calculated as $NaNO_2$	Container.	No. of Sample.	Remarks and Opinion of the Chief Analysis.
A. C. LARIVIERE, INSPECTOR—*Concluded.*									
	p. c.	p. c.	p. c.						
	9·82	0·39	2·02	11·50	None.		In paper bags	48981	
	9·95	0·37	2·03	11·56	"		"	48982	
	9·27	0·48	2·34	13·32	"		"	48983	
	9·25	0·40	2·34	13·32	"		"	48984	
	9·80	0·40	2·04	11·62	Trace		"	48990	
THOS. PARKER, INSPECTOR.									
Royal Household	11·10	0·36	2·00	11·40	None.		In paper bag	49955	
Five Roses	10·90	0·41	2·04	11·62	"		"	49956	
King's Quality	9·75	0·45	1·84	10·48	"		"	49957	
Purity	10·25	0·36	1·97	11·22	"		"	49958	
Robinhood	9·90	0·38	2·07	11·79	"		"	49959	
Bread	10·05	0·40	1·98	11·28	0·1	0·5	"	49960	
Prairie Pride	10·02	0·45	2·12	12·07	0·1	0·5	"	49982	
Harvest Queen	10·20	0·36	2·24	12·77	None.		"	49983	
Seal of Alberta	10·05	0·42	2·05	11·68	0·2	1·0	"	49992	
Gold Drop	9·52	0·41	1·62	9·24	None.		"	49993	
D. O'SULLIVAN, INSPECTOR.									
Hungaria	9·72	0·32	1·97	11·22	None.		In paper bags.	57672	
Snow Flake	10·45	0·50	1·41	8·03	"		"	57673	
Wild Rose	9·27	0·44	1·54	8·77	0·2	1·0	"	57677	
Royal Household	9·50	0·41	1·69	9·62	None.		"	57681	
Royal Standard	9·85	0·36	2·26	12·89	"		"	57688	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
							DISTRICT OF VICTORIA—
1913.							
Nov. 5	Flour	57689	H. O. Kirkham, 714 Fort st., Victoria, B.C.	3 lbs.	15	Brackman Ker M. Co., Ltd., Victoria, B.C.	
" 5	"	57693	Copas & Young, Fort & Broad sts., Victoria, B.C.	3 "	15	Ogilvie F. M. Co., Ltd., Medicine Hat	
" 6	"	57694	Brackman Ker M. Co., Ltd., Broad & Pandora sts., Victoria, B.C.	3 "	20	Vendors	
" 6	"	57695	"	3 "	15	"	
" 6	"	57696	"	3 "	15	Western Canada F. M. Co., Ltd., Winnipeg.	

SESSIONAL PAPER No. 14

FLOUR.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Moisture.	Ash.	Nitrogen.	Proteid N x 5·7	Nitrite reacting nitrogen. Pts. per million.	Calculated as $NaNO_2$	Container.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
D. O'SULLIVAN, INSPECTOR—*Concluded.*									
	p. c.	p. c.	p. c.						
Bread	10·37	0·40	2·10	11·98	0·2	1·0	In pager bags	57689	
Manitoba Hard Wheat	9·91	0·41	2·18	12·42	None		"	57693	
B. & K. Graham Flour.	9·95	1·53	2·09	11·91	"		"	57694	Whole wheat flour.
B. & K. Bread	10·40	0·38	2·00	11·40	0·2	1·0	"	57695	
Purity	10·62	0·38	2·02	11·51	None		"	57696	

APPENDIX W.

BULLETIN No. 280—TEMPERANCE BEVERAGES OR SOFT DRINKS.

OTTAWA, February 26, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister Inland Revenue.

SIR,—I beg to hand you herewith a report upon the examination of 150 samples sold as soft drinks (non-alcoholic or temperance beverages) during the months of September and October last. The specific names under which these were offered for sale are as follows:—

	Samples.
Ginger Ale	45
Ginger Beer	14
Lemon Sour	20
Cream Soda	23
Iron Brew	7
Champagne Cider	13
Strawberry Soda	6
Sarsaparilla	5
Noxi-Cola	1
Cherry Cider	1
Raspberry	1
Wineo	1
Lime Juice and Soda	1
Orange Phosphate	1
Grape Smash	1
Root Beer	1
Raspberryade	1
Lagerine	1
Table Waters	7
Total	150

Three samples were lost by breakage in carriage.

Of the seven samples classed as Table Waters, five (5) are sold as Soda Water, and these contain total dissolved solids as follows:—

Soda Water, No. 60051, solids per cent	0·060
" " 54417 "	0·020
" " 54427 "	0·020
" " 48948 "	0·140
" " 49967 "	0·060

I am not aware that any authoritative definition of the term Soda Water exists. Doubtless the artificial waters so-called are intended to be taken as imitations of the naturally effervescent alkaline waters for which Ems, Vichy, and other places are celebrated. The Vichy Water contains about 0·700 per cent solids, chiefly bi-carbonate of soda. It is evident that the above samples bear no sort of resemblance to the Vichy

Water; and the amount of contained Soda is so small that they would be much more correctly described as Carbonated Water, as their impregnation with carbonic acid gas under pressure is their only special characteristic.

The remaining two samples are ordinary table waters of good quality.

Of the great majority of these samples of soft drinks it may be said that they are essentially solutions of sugar in varying amounts (from 1 to 10 per cent) flavoured with various essences or fruit flavours (mainly artificial) and impregnated with carbon dioxide (carbonic acid gas) under pressure.

All attempts to find a specific character for Ginger Ale, Ginger Beer, Lemon Sour, &c., from the numerical results of analysis, fails utterly. These beverages are evidently prepared according to no generally accepted formula, but depend for their character upon the fancy of the manufacturer. It cannot be said that they are harmful; and so long as they meet a popular demand for a sweetened effervescent drink, no objection to them can be taken.

The presence of salicylic acid, to prevent fermentation of the sugar, is noted in thirteen (13) samples; but the amount is not excessive in any case. Saccharin (used as a partial substitute for sugar) is found in thirty-four (34) samples. Objection has been taken to this article as a sweetener by the United States of America (*see* Food Inspection Decision No. 142, of March, 1912), but the evidence of its harmfulness does not appear to be convincing. Under Food Inspection Decision No. 146, of July, 1912, the United States of America permits its presence in certain classes of food, but requires a declaration of the presence of Saccharin on the label. This precaution, and the restriction of its amount, to such a quantity as shall prevent the ingestion of more than 0·30 gramme daily is all that seems to be necessary in the light of our present knowledge of the physiological effects of saccharin. The careful investigation made by the Referee Board of the U.S.A., and reported Jan. 13, 1912, revealed that amounts of Saccharin up to 0·30 gramme daily, had no deleterious or poisonous action, and were not injurious to health.

Of course, Saccharin must not be used to take the place of sugar in a food in which sugar is a necessary ingredient. But I am not aware that any legal definitions of these temperance drinks prescribe sugar as a necessary ingredient; or that the public desires anything more than sweetness without regard to the sweetening material, so long as this is harmless to health.

It would, however, seem proper to require that whenever a new article is used to effect a result which has long been associated with the presence of sugar, the fact that such substitution has been made should be declared on the label. The words 'Sweetened (wholly or partially) with Saccharin,' should, I think, appear upon these labels, when Saccharin is present.

Alcohol, in more than traces, is absent from all but five samples; and in only three of these does it exceed two (2) per cent by volume, the legal limit for non-alcoholic beverages. (G. 947).

Samples sold under the same name have been put together in subsidiary tables, under the captions 'Ginger Ale, Ginger Beer, Lemon Sour, &c.:' but a study of the articles so named fails to reveal any such homogenuity among those classed together as could warrant a definition of the classes in any but the most general way.

I beg to recommend publication of this report as Bulletin No. 280.

I have the honour to be, Sir,
Your obedient servant.

A. McGILL.
Chief Analyst.

BULLETIN No. 280—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
Oct. 13	Cream Soda...	54316	Burns Grocery, Yarmouth, N.S.	3 bots.	20	J. Pink & Co., Yarmouth, N.S.	Mfrs.
" 13	Jersey Cream.	54317	" "	3 "	20	J. W. Grant & Co., Yarmouth, N.S.	"
" 24	Ginger Ale...	54318	F. J. Quinn, Halifax, N.S.	3 "	20	Vendor	
" 24	Jersey Cream.	54319	Whelan & Ferguson, Halifax, N.S.	3 "	20	Vendors	
" 24	Strawberry Soda.	54320	Jas. Rowe, Halifax, N.S.	3 "	20	Vendor	
" 24	Grape Smash..	54321	W. H. Donovan, Halifax, N.S.	3 "	20	"	
" 27	Lemon Sour..	54322	Biglow & Hood, Truro, N.S.	3 "	20	Vendors	
" 27	" " ..	54323	V. Pitkavitch, Truro, N.S.	3 "	30	F. Drak, New Glasgow, N.S.	Mfr
" 28	Apple Tart...	54324	H. C. Burns, Lunenburg, N.S.	3 "	25	Pearn & Boulton, Sussex, N.B.	Mfrs.
" 28	Wineo	54325	A. Sodero, Lunenburg, N.S.	3 "	31	Kempton Bros., Milton, N.S.	"
DISTRICT OF NEW BRUNSWICK—							
Sept. 24	Lemon Soda..	50367	Ready's Breweries, Ltd., St. John, N.B.	3 bots.	20	Vendors	
" 24	Ginger Ale...	50368	" "	3 "	20	"	
" 24	Sarseparilla...	50369	" "	3 "	20	"	
" 29	Ginger Ale...	50370	W. A. Simonds, St. John, N.B.	3 "	24	Sussex Beverage Co., Sussex, N.B.	
Oct. 3	Iron Brew....	50371	W. B. Daley, St. John, N.B.	3 "	15	Vendor	
" 8	Strawberry....	50372	F. H. Tyrrell, St. Stephen, N.B.	3 "	15	"	
" 14	Jersey Cream.	50373	A. H. Wood, Fredericton, N.B.	3 "	20	"	
" 21	Iron Brew....	50374	Sussex Mineral Springs, Ltd., Sussex, N.B	3 "	60	Vendors.	
" 22	Ginger Ale...	50375	Havelock's Mineral Springs Co., Moncton, N.B.	3 "	Nil.	"	
" 23	Lime Juice Soda.	50376	Charles Cassidy, Chatham, N.B.	3 "	45	Vendor	

SESSIONAL PAPER No. 14

SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.												
	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.					
.....	9·91	5·00	4·10	9 10	0·81	0·090	0·20	None.	None.	.....	54316	
.....	10·10	7·88	2·00	9·88	0·22	0·262	0·33	"	"	.....	54317	
.....	6·45	1·38	4·54	5·92	0·53	0·412	0·20	"	"	.....	54318	
.....	7·26	4 24	2·28	6·52	0·74	0·135	0·20	"	"	.....	54319	
.....	11·56	5 04	5·14	10·19	1·37	0 142	0·20	"	"	Artificial flavour.	54320	
.....	9·34	6·48	2·39	8·87	0·47	0·13	0·18	"	"	.....	54321	
.....	7·44	3·45	3·59	7 04	0·40	0·175	0·46	"	"	.....	54322	
.....	3 44	3·10	0 10	3 20	0·24	0·224	0·99	"	Salicylic acid.	.....	54323	
.....	14 14	6·88	5 69	12·57	1·57	0 240	0 46	"	"	Artificial flavour.	54324	
.....	10 09	5·25	4·00	9·25	0·84	0·20	0·187	"	None.	.....	54325	
J. C. FERGUSON, INSPECTOR.												
.....	8·18	4 42	2 80	7 22	0·96	0·210	0·40	None.	None.	.....	50367	
.....	10 22	3·18	6·22	9 41	0 82	0 200	0 20	"	"	.....	50368	
.....	10·48	5·50	3 64	9 24	1·24	0·105	0·26	"	"	.....	50369	
.....	11 00	3·38	6·93	10 31	0·69	0 210	0·09	Present.	Salicylic acid.	.....	50370	
.....	8 45	1·62	5·52	7·14	1 31	0 165	0·26	None.	None.	.....	50371	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*50372	
.....	11·14	6 80	3 04	9·84	1·30	0 173	0 26	None.	None.	.....	50373	
.....	12 64	1·18	9 48	10·66	1 98	0 202	0 20	"	"	.....	50374	
.....	7·12	1·61	5 15	6 76	0·36	0 172	0 26	"	Salicylic acid	.....	50375	
.....	4 78	4 06	0 60	4·66	0 12	0 28	0 33	"	None.	.....	50376	

* Broken in transit.

BULLETIN No. 280—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF QUEBEC—							
1913.							
Sept. 22	Soft Drinks...	56149	George Jobin, 390 rue St. Joseph, Quebec.	3 bots.	30	F. A. Fleuet, Quebec.	
" 22	" ...	56150	Edouard Boileau, 836 rue St. Valier, Quebec.	3 " ..	25	Timmons & Son, Quebec.	
" 22	" ...	56151	Jos. Vaillancourt, 358 rue St. Joseph, Quebec.	3 " ..	30	Bedard & Dion, Quebec.	
" 23	" ...	56152	G. Pepin, 132 rue Massue, Quebec.	3 " ..	37	Elzear Fortier, Quebec.	
" 23	" ...	56153	" " .	3 " ..	37	Edouard Coulombe, Quebec.	
" 23	" ...	56154	" " .	3 " ..	22	Elzear Fortier & Co., Quebec.	
" 23	" ...	56155	" " ..	3 " .	22.	" " ..	
" 23	" ...	56156	" " ..	3 " ..	22	" " ..	
" 24	" ...	56157	O. Bacon, 28 rue Hermine, Quebec.	3 " ..	20	F. A. Fleuet, Quebec.	
" 24	" ...	56158	" " ..	3 " ..	20	" " ..	
DISTRICT OF THREE RIVERS—							
Sept. 19	Ginger Ale ...	59731	A. S. Caisse, Berthierville.	3 bots.	30	J. Christian & Co., Montreal.	
" 19	Ginger Beer .	59732	O. Paquette, Berthierville.	3 " ..	45	" " ..	
19	Cider	59733	J. A. Laporte, Berthierville.	3 " ..	25	" " ..	
" 22	Ginger Ale....	59734	George Gouin, St. Felix de Valois.	3 " ..	15	Vendor.....	
" 22	Soda Water...	59735	" " ..	3 " ..	15	"	
" 22	Ginger Ale....	59736	Oct. Rainville, St. Felix de Valois.	3 " ..	15	Geo. Gouin, St. Felix de Valois.	
" 22	Soda Water...	59737	" " ..	3 " ..	15	" " ..	
" 22	Ginger Ale....	59738	Ludger Duperrault, St. Felix de Valois.	3 " ..	30	. .. .	Goulet & Frere, Montreal.
" 22	Soda Water...	59739	" " ..	3 " ..	30	A. D. Lapierre, Joliette.	
" 22	Cider.....	59751	" " ..	3 " ..	45	" " ..	

SESSIONAL PAPER No. 14

SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity, as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
F. X. W. E. BÉLAND, INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.					
.... ..	7·23	2·37	4·28	6·65	0·58	0·075	0 07	None.	None.	....	56149	
... .	4·99	3·90	0·52	4·42	0·57	0·247	0 33	Present.	"	....	56150	
. ...	4·68	3 28	1 32	4·60	0·08	0·190	0 20	"	"	.....	56151	
.....	9·60	5·00	3·70	8 70	0·90	0·142	0·20	None.	"	Artificial flavour.	56152	
.....	5·37	4·20	1·02	4·22	0·15	0·202	0·33	"	"	" .	56153	
....	10·46	3·42	5·92	9 34	1 12	0·045	0·20	"	"	....	56154	
....	7·18	1·44	4·50	5·94	1·24	0·410	0·20	"	"	.....	56155	
... .	8·74	2·34	4·11	6 95	1·79	0·120	0·26	"	"	....	56156	
....	7·72	2·61	3·95	6·56	1·16	0 105	0·20	"	"	.. ..	56157	
.....	7·07	0 88	5·45	6·33	0 74	0·161	0·00	"	"	.....	56158	
Dr V. P. LAVALLÉE, INSPECTOR.												
....	7·64	3·28	3·86	7·14	0·50	0·210	0·33	Present.	None.	....	59731	
....	6·28	4·18	1·42	5·60	0·68	0·150	0·26	None.	"	Artificial flavour.	59732	
....	5·46	2·42	2·25	4·67	0 79	0·502	0·20	"	Salicylic acid.	" ..	59733	
.....	4·58	0·75	3·16	3·91	0·67	0·225	0·20	Present.	None.	..... .	59734	
..... .	4·89	2 32	2·10	4·42	0 47	0·052	0·46	"	"	.....	59735	
....	4·88	0·93	3·42	4·35	0·55	0 240	0·26	"	"	.. . ...	59736	
.....	5·18	1 14	3·37	4·51	0 67	0·060	0·33	None	"	.....	59737	
....	3 38	2 70	0·65	3·35	0·03	0·112	0·33	Present.	"	.....	59738	
....	5·01	0·73	3·61	4 34	0 67	trace	0·46	None.	"	.. ..	59739	
.. ..	5·16	4 08	0·61	4·69	0 46	0·065	0·60	"	"	Artificial flavour.	59751	

BULLETIN No. 280—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1913.							
Sept. 29	Cream Soda..	1735	J. M. Brunette, Victoriaville.	3 bots.	25	Vendors	... .
" 30	" ..	1736	J. E. Jeannette, Richmond E.	3 "	25	"	.....
Oct. 2	Ginger Ale....	1737	Alp. Moisan, Megantic...	3 "	30	"	.....
" 3	Lemon Sour..	1738	J. H. Bryant, Sherbrooke	3 "	....	"	.....
" 3	Rasberry.....	1739	D. M. McMahon, Sherbrooke.	3 "	....	"	.....
" 6	Strawberry....	1740	J. H. Poloquin, Coaticooke	3 "	20	"	.....
" 9	Rasberry.....	1741	F. B. Perkins, Waterloo.	3 "	....	"	.....
" 9	Noxi-Kola....	1742	" " ..	3 "	....	"	.....
" 9	Champagne. Cider.	1743	H Torand, Waterloo	3 "	....	"	.....
" 31	"	1744	F. Orsali & Cie, St-Hyacinthe.	3 "	15	"	.....
DISTRICT OF MONTREAL—							
Oct. 21	Ginger Ale....	58636	D. Legault, 1320 Wellington st., Verdun.	3 bots.	21	J. Christin & Co., Montreal.	.....
" 21	"	58637	N. Gauthier, 1218 Wellington st., Verdun.	3 "	24	Stewart Bottling Co., Montreal.	.....
" 21	Strawberry....	58638	O. Montpetit, 1265 Wellington st., Verdun.	3 "	24	J. Christin & Co., Montreal.	.....
" 31	Ginger Ale....	58639	Trudeau Frère, 302 Charlevoix st., Verdun.	3 "	24	Stewart Bottling Co., Montreal.	.....
Nov. 4	Cream Soda...	58640	Taylor and Peacock, 330 Charlevoix st., Verdun.	3 "	15	Chas. Gurd & Co., Montreal.	.....
" 4	Lemon Sour..	58641	N. Lalaude, 364 Charlevoix. st., Verdun.	...	24	E. F. Kelly, Montreal.	.....
" 4	Ginger Ale....	58642	H. Harel, 361 Charlevoix, st., Verdun.	...	24	Rowan Bros., Montreal.	.....
" 4	Champagne Cider.	58643	A. Rathé, 555 Grand Trunk, st., Verdun.	...	24	Millars, Montreal	.....
" 4	Cream Soda...	53644	E. Valade, 230 Chateauguay st., Verdun.	.....	21	H. Girouard & Co., Montrael.	.....
" 4	Champagne Cider.	58645	H. Piché, 628 Centre st., Verdun.	....	24	La Renna Bottling Co., Montreal.	.....

SESSIONAL PAPER No. 14

SOFT DRINKS.

Results of Analysis.

Inspector's Report. (Is not an expression of opinion).	Grammes per 100 cc.									Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives			
J. C. ROULEAU, INSPECTOR.												
	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.					
. .	9·62	1·37	7·04	8·41	1·21	0·052	0·33	None	None	.. .	1735	
. ...	7·18	0·26	6·60	6·86	0·32	0·015	0 20	"	"	. . . .	1736	
....	8·23	0·42	6·72	7·14	1·09	0·075	0·33	"	"	.	1737	
.. .. .	9·58	4·37	4·15	8·52	1·06	0 224	0 40	"	Salicylic. Acid.		1738	
... ..	7·89	3·25	3·61	6·89	1·00	0 33	0·150	Present	None	Artificial flavour.	1739	
....	4·80	0·61	3·10	3·71	1·09	0·045	0·33	"	"	"	1740	
....	6·64	2·66	3·80	6 46	0·18	0 090	0 33	"	"	"	1741	
....	4·96	4·07	None	4·07	0·89	0 07	0·180	None	"	.. ..	1742	
....	10·78	5·16	4·20	9·36	1·42	0·240	0 33	Present	"	Artificial flavour.	1743	
. .....	8·24	4 80	2·07	6·87	0·37	0·452	0 33	None	"	"	1744	
D. J. KEARNEY, INSPECTOR.												
....	7·64	4·92	2 55	7·47	0·17	0·105	0·20	None	None	Artificial Flavour.	58636	
. ..	4·22	0·62	3·32	3·94	0·28	0 300	0 26	Present	"	....	58637	
.. .	7·12	3·38	3·32	6·70	0 42	0 067	0·33	None	Salicylic. Acid.	Artificial flavour.	58638	
. . ..	5·60	0·57	4 54	5·11	0·49	0·262	0·20	Present	None	.... .	58639	
. . ..	7·11	0·45	5·51	5 96	1·15	0 098	0·33	None	"	.. . .	58640	
.. ...	6 18	2·45	3·05	5·50	0 68	0·172	0 13	"	Salicylic. Acid.	.....	58641	
. . ...	5·50	1·15	3·12	4·27	1·23	0 067	0·10	"	"	....	58642	
..	5 98	3·65	1·42	5·07	0·91	0·232	0·60	Present	None	Artificial flavour.	58643	
.	4·63	4·00	0·40	4·40	0·23	0·075	0·07	"	"	....	58644	
. .	4·58	2·62	1·72	4·34	0·24	0·065	0·33	"	"	Artificial flavour.	58645	

BULLETIN No. 280—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VALLEYFIELD—							
1913.							
Nov. 12	Ginger Ale....	58661	John McDonald, River Beaudette.	3 bots	30	C. Robillard et Co., Montreal.	
" 12	Ginger Ale....	58662	M. Beauchamp, River Beaudette.	3 "	45	1,000 Island Mineral Water Co., Brockville.	
" 20	Ginger Ale....	58663	P. J. Pulos, Valleyfield	3 "	25	T. Saniel, Valleyfield.	
" 20	Cream Soda ..	58664	N. Boutin, Valleyfield	3 "	30	" "	
" 20	Ginger Beer ..	58665	Salaberry Hotel, Valleyfield.	3 "	25	" "	
" 21	Cream Soda .	58666	Geo. Greff, Coteau Landing.	3 "	30	" "	
" 21	Ginger Ale....	58667	J. E. Lalonde, St. Zotique	3 "	30	Goulet Bros., Montreal.	
" 21	Ginger Ale....	58668	E. Poirier, Coteau Landing.	3 "	60	Pilgrim M. W. Co., Brockville.	
" 21	Lemon Sour .	58669	O. Besner, Coteau Landing	3 "	60	F. N. Pilgrim, Brockville.	
" 21	Ginger Ale....	58670	Chas. Jasmin, Coteau Landing.	3 "	30	T. Saniel, Valleyfield.	
DISTRICT OF OTTAWA—							
Oct. 3	Ginger Ale....	59201	J. J. McLaughlin, Lyon st., Ottawa.	3 bots	16	Vendors	
" 3	Lemon Soda..	59202	" "	3 "	16	"	
" 3	Cream Soda ..	59203	" "	3 "	16	"	
" 3	Ginger Ale....	59204	Morel Bros., Bay st., Ottawa.	3 "	25	"	
" 3	Champagne Cider.	59205	Eng. Mirault, Rideau st., Ottawa.	3 "	16	Vendor	
" 3	Iron Tonic....	59206	" "	3 "	16	"	
" 3	Ginger Ale....	59207	" "	3 "	16	"	
" 3	Ginger Ale....	59208	J. R. Shaw, Besserer st., Ottawa.	3 "	16	"	
" 3	Lemon Sour .	59209	" "	3 "	16	"	
" 3	Ginger Ale....	59210	A. L. Pinard & Sons, Rideau st., Ottawa.	3 "	16	Pilgrim's M. W. Co., Aylmer, P.Q.	

SESSIONAL PAPER No. 14

SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
D. J. KEARNEY, ACTING INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.					
.. ..	4·22	1 26	2 90	4·16	0 06	0 120	0·07	None.	None.	....	58661	
... .	4·10	1 78	1 95	3 77	0 33	0·090	0 20	„	„	....	58662	
..... .	5 94	3 85	1 75	5·60	0 34	0 097	0·40	„	„	..	58663	
..... .	7·94	1·71	5 24	6·95	0·99	0 038	0 13	Present.	„	..	58664	
.. . . .	6·18	3 48	2·45	5 93	0·25	0 09	0 40	„	„	.	58665	
....	7 16	0·54	5 90	6·44	0·72	0 045	0 20	None	„	.. .	58666	
.. ..	4 34	2·75	1·16	3 91	0 43	0 105	0·20	„	„	.....	58667	
. .....	3 52	1·74	1·65	3 39	0 13	0 103	0 20	Present.	„	... .	58668	
. . .	3·06	2 83	0·10	2·90	0 16	0 165	0·33	None	„	... ...	58669	
. ..	5·70	0 92	3·96	4·88	0·82	0 070	0·33	„	„	...	58670	
J. A. RICKEY, INSPECTOR												
.. . .	9 09	3·09	5·72	8 81	0·2	0 214	0 33	None	None.	....	59201	
. . ..	9 08	2 51	5·92	8·43	0 65	0 182	0 20	„	„	....	59202	
.. ..	9·41	2 81	5·78	8 58	0·8	0 060	0 26	„	„	....	59203	
.. .. .	5 16	0 65	4 03	4 68	0 48	0·352	0 20	Present.	„	... .	59204	
. ....	4 48	3·98	None	3 98	0·50	0 180	0 40	None.	„	Artificial flavour.	59205	
.....	4·40	1·80	1 92	3·72	1·08	0 067	0·26	„	„	....	59206	
... ...	2·82	1 84	0 71	2 55	0·27	0·045	0 2	Present.	„	....	59207	
... .	4·78	0·56	3·59	4·15	0·63	0·337	0 26	„	„	..	59208	
.....	4 45	1·00	3 26	4·26	0·19	0·168	0·20	None	„	... .	59209	
...	4 22	2·46	1 63	4 09	0·13	0·180	0·20	Present.	„	... .	59210	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF KINGSTON—				
1913.							
Sept. 18	Ginger Ale	60046	S. V. Horne, Kingston	3 bots.	10	Vendor	
" 18	Lemon Sour	60047	"	3 "	10	"	
" 18	Soda Water	60048	"	3 "	10	"	
" 18	Ginger Beer	60049	"	3 "	10	"	
18	Ginger Ale	60050	J. M. Parland, Kingston	3 "	35	Gurd Co., Montreal.	
18	Soda Water	60051	J. Gordon, Kingston	3 "	30	"	
" 18	Ginger Beer	60052	Geo. Thompson, Kingston	3 "	30	Vendor	
" 18	Lemon Sour	60053	"	3 "	45	"	
" 18	Ginger Ale	60054	"	3 "	30	"	
" 18	Lemon Sour	60055	E. Beaupre, Kingston	3 "	45		
			DISTRICT OF TORONTO—				
Sept. 17	Apple Cider	57474	G. Famman, 11 Caer Howell st. Toronto.	3 bots.	15	Vendor	
" 17	Cherry Cider	57475	Toronto Soda Water Co., Toronto.	3 "	20	Vendors	
" 17	Sarsaparilla	57476	Dom. Soda Water Mfg. Co., 24 Walton st., Toronto.	3 "	15	"	
" 17	Cream Soda	57477	Chas. Wilson, Ltd., 517 Sherbourne st., Toronto.	3 "	25	"	
" 18	Iron Tonic	57478	Petersons, Ltd., 104 Front st., Toronto.	3 "	16	"	
" 18	Lemon Sour	57479	Ont. Soda Water Mfg. Co., 209½ McCaul st., Toronto	3 "	15	"	
" 18	Ginger Ale	57480	The Union Soda Water Mfg. Co., 30 William st., Toronto.	3 "	15	"	
" 18	Concentrated Lemonade	57481	Dalton Bros., 11 Front st. East, Toronto.	3 "	30	"	
" 19	Jersey Cream	57482	L. A. Kirkland, 36 Dundas st., Toronto.	3 "	35	Vendor	
" 19	Ginger Beer	57483	The Mineral Springs, Ltd., 349 Front st. East, Toronto.	3 "	36	Vendors	

SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
JAS. HOGAN, INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.					
. . . .	7·65	0·95	5·97	6·92	0·73	0·160	0·40	None.	None.	. . . . .	60046	
.. . . . .	6·56	1·49	4 60	6·09	0·47	0·063	0·40	Present.	„	. . . . .	60047	
. . . . .	4 70	2·25	1·83	4·08	0·62	0·060	0·46	None.	„	. . . .	60048	
.. . . . .	5 00	2·00	1·80	3 80	1·10	0·300	2 86	„	„	. . .	60049	Alcohol in slight excess.
.. . . . .	8·40	1 34	6·24	7·58	0 82	0·210	0·40	Present.	„	. . . . .	60050	
. . . . .	0 060	. . .	. . .	. . . . .	. . .	. . .	. . .	. . . . .	. . .	Bases present, sodium and calcium.	60051	
	7·00	2 23	4·08	6·31	0·69	0·157	0·20	None.	None.	. . . . .	60052	
. . . . .	6·65	2 94	3·50	6·44	0 21	0·119	0·40	„	„	. . . . .	60053	
. . . . .	6·79	1·37	5·00	6·37	0·42	0 232	0·33	„	„	. . . .	60054	
. . .	6 00	0 95	1·46	5·41	0·59	0 090	0·46	„	„	. . . . .	60055	
H. J. DAGER, INSPECTOR.												
. . . .	10·50	4·69	4·19	8·88	1 62	0 105	0·26	None.	None.	Artificial flavour.	57474	
. . . . .	6·92	0·97	5 60	6 57	0·35	0 08	0·120	„	„	. . . . .	57475	
. . . . .	5·85	2·96	2 15	5 11	0·74	0·210	0·20	„	„		57476	
Quality first.	10 90	4 82	4 77	9 59	1·31	0 255	0·13	„	„	. . . . .	57477	
Genuine flavours.	6 90	3 70	2·43	6·13	0 77	0·128	0 20	„	„	. . . . .	57478	
. . . . .	4·53	1·53	2·76	4·29	0·24	0 075	0·33	Present.	„	. . .	57479	
. . . . .	4·75	1·15	3·22	4·37	0·38	0 060	0·33	None.	„	. . . . .	57480	
A pure lemon product contains no other acid.	48·70	36·58	5·90	42·48	6·22	*4 09	0 99	„	*„	. . .	57481	
. . . . .	7·35	5·00	1 78	6·78	0·57	0·120	0 13	„	„	. . . . .	57482	
Yorkspring s	5·92	2·54	3·15	5·69	0 23	0 285	2 62	„	„	. . . . .	57483	Alcohol in slight excess.

*The acid was isolated and identified as citric acid, and estimated as citric acid (4·09 gms. per 100cc.)

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1913.							
Sept. 30	Orange Phosphate.	50870	Sutherlands, Ltd., York st., Hamilton, Ont.	3 bots.	25	Vendors	
" 30	Lemon Sour	50871	" "	3 "	25	"	
" 30	Ginger Ale	50872	" "	3 "	20	"	
" 30	Sarsaparilla	50873	" "	3 "	25	"	
" 30	Lagerine	50874	William Bolus, 412 York st., Hamilton, Ont.	3 "	30	The Kuntz Brewery, Ltd.	
" 30	Ginger Ale	50875	C. Katzemire, 105 John st., Hamilton, Ont.	3 "	35	Cummer & Son, Hamilton.	
" 30	Sarsaparilla	50876	Geo. O. Elder, 121 McGregor st., Hamilton, Ont.	3 "	30	" "	
" 30	Lemon Sour	50877	Louis Econople, 2 Merrick st., Hamilton, Ont.	3 "	20	" "	
" 30	Lemon Sour	50878	E. Fanman, 448 York st., Hamilton, Ont.	3 "	30	Vendor	
" 30	Ginger Ale	50879	" "	3 "	30	"	
DISTRICT OF WINDSOR—							
Oct. 9	Ginger Ale	54416	D. Donaldson, Sarnia	3 bots.	45	Sharp & Kirkpatrick, Sarnia.	
" 9	Soda Water	54417	" "	3 "	30	Gummer & Son, Hamilton.	
" 9	Sanitaris Water.	54418	" "	3 "	40	Sanitaris Ltd., Arnprior, Ont.	
" 9	Ginger Beer	54419	" "	3 "	40	" "	
" 9	Ginger Ale	54420	" "	3 "	40	Goderich M. W. Co., Goderich, Ont.	
" 9	Mineral Water	54423	C. H. Pugh, Sarnia	3 "	25	Saugeen M. W. Co., Southampton.	

SESSIONAL PAPER No. 14

SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Sugar.	Undetermined Sugar.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and of the Opinion Chief Analyst.
J. J. COSTIGAN, ACTING INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.					
.....	7·48	5·14	2·18	7·32	0·16	0·20	0·165	None.	Salicylic acid.	.....	50870	
.....	8·12	3·52	3·6	7·17	0·95	0·103	0·07	"	None	.....	50871	
.....	6·31	0·82	5·08	5·90	0·41	0·100	0·26	"	"	.....	50872	
.....	8·82	2·01	6·40	8·41	0·41	0·33	0·068	"	Salicylic acid.	.....	50873	
.....	4·46	.....	..	....	.....	.....	1·34	.....	.....	Proof spirit 2·34.	50874	
.....	1·88	0·60	1·22	1·82	0·08	0·150	0·20	Present.	None.	.....	50875	
.....	..	.....	.....	.....	.....	.....	.....	.....	.....	.....	*50876	
.....	1·78	0·38	1·20	1·58	0·20	0·098	0·26	None.	None.	.....	50877	
.....	9·96	2·06	6·84	8·90	1·06	0·063	0·07	"	"	.....	50878	
.....	9·54	1·68	7·85	9·53	0·01	0·178	0·20	"	"	.....	50879	
JNO. TALBOT, INSPECTOR.												
.....	4·77	1·53	2·61	4·19	0·58	0·270	0·20	None.	None.	.....	54416	
Club Soda..	0·020	.....	....	.....		.....	.....	.....	.....	Bases present, sodium and calcium.	54417	
The Monarch of Mineral Water.	0·483	.....	....	.....	.....	.....	.....	.....	.....	Magnesium and Potassium, sodium and calcium.	54418	
Crested.....	10·00	3·35	5·17	8·82	1·18	0·127	0·33	None.	None.	.....	54419	
Sparkling Dry.	5·57	1·42	3·02	4·44	1·13	0·165	0·26	"	"	.....	54420	
Saugeen Natural Mineral Water.	0·310	...	... ..	.....	.....	.....	.....	.....	...	Bases. Ca. Mg., Na and K. acid radicals SO_3 and Cl. traces of CO_2.	54423	

* Broken in transit.

BULLETIN No. 280—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1913.							
Oct. 9	Ginger Ale...	54424	C. H. Pugh, Sarnia	3 bots.	35	Hamilton M. W. Co., Hamilton.	
" 9	Ginger Ale...	54425	" "	3 "	30	Mineral Spring Co., Toronto.	
" 9	Ginger Ale...	54426	" "	3 "	25	C. H. Tune, London.	
" 9	Soda Water...	54427	" "	3 "	30	Gummer & Sons, Hamilton.	
DISTRICT OF MANITOBA—							
Sept. 26	Ginger Beer..	48946	Pelissier & Sons, Winnipeg.	3 bots.	Nil.	Vendors	
" 26	Ginger Ale...	48947	" "	3 "	"	"	
" 27	Crystal Soda..	48948	E. L. Drewery, Winnipeg	3 "	"	Vendor.	
" 27	Ginger Beer .	48949	" "	3 "	"	"	
" 29	Ginger Ale. .	48950	Blackwood, Ltd., Winnipeg.	3 "	"	Vendors	
" 29	Ginger Beer ..	48951	" "	3 "	"	"	
" 29	Lemonade...	48952	" "	3 "	"	"	
" 29	Cream Soda ..	48953	The American Soda Water Co., 358-360 Flora st., Winnipeg.	3 "	15	"	
Oct. 27	Ginger Beer..	48954	The Empire Brewing Co., Brandon.	3 "	...	"	
" 27	Ginger Ale...	48955	The Brandon Brewing Co., Brandon.	3 "	..	"	

SESSIONAL PAPER No. 14

SOFT DRINKS.

Concluded.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.					
Imperial Belfast Ginger Ale.	1·70	0·52	1·12	1·64	0·06	0·102	0·13	Present.	None.	....	54424	
York Springs Dry Ginger Ale.	5·61	1·49	3·56	5·05	0·56	0·075	0·13	None.	"	....	54425	
London Dry Ginger Ale.	7·48	2·85	2·55	5·40	2·08	0·255	0·20	"	"	.....	54426	
Club Soda ..	0·020	... .	.....	.... .	.....	.....	.....	... ..	.....	Bases present, sodium and calcium.	54427	

A. C. LARIVIÈRE, INSPECTOR.

Beaver Brand.	4·76	1·00	2·26	3·26	1 50	0 105	0 46	Present.	None.	.....	48946	
"	3·30	1·07	2·15	3·30	0·00	0·105	0·20	"	"	....	48947	
The Golden Key Brand.	0 140	.	..	...	....		..	.. ..	.. ...	Bases present, sodium and Calcium	48948	
"	5·70	4·70	0 90	5·60	0·10	0·277	4·71	None.	Salicylic acid.	.....	48949	Alcohol above 2%.
.....	8·13	1·20	6·71	7·91	0 22	0 322	0 26	"	None.	. ...	48950	
.. ..	7 96	1·04	6·70	7·74	0·22	0·270	0 33	"	"	..... .	48951	
....	7·12	1·22	5·38	6·60	0 52	0·084	0·07	"	"	.....	48952	
. .....	. ..	.. ..	.....	....		. .	.....	...	.....	. . ..	*48953	
.....	8·13	0·44	5·78	6 22	1 91	0·045	0·40	None.	Salicylic acid.	.....	48954	
.. ..	10·44	1·38	7·66	9·04	1·40	0 240	0 33	"	None.	.....	18955	

* Broken in transit.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF ROCKY MOUNTAINS—							
1913.							
Oct. 3	Ginger Ale..	49963	Thorpe & Co., Nelson, B.C.	3 bots.	40	Vendors.....	.....
" 3	Iron Brew....	49964	" "	3 "	40	"	.....
" 3	Cream Soda..	49965	" "	3 "	40	"	.....
" 3	Sarsaparilla...	49966	" "	3 "	"	"	.....
" 3	Soda Water..	49967	" "	3 "	25	"	.....
" 17	Iron Brew....	49971	Jas. Wood. Fernie, B.C.	3 "	30	Fernie Fort Steele By. Co., Fernie, B.C.	.....
" 17	Ginger Ale..	49972	" "	3 "	30	" "	.....
" 17	Ginger Beer..	49973	" "	3 "	30	" "	.....
" 17	Strawberry Soda..	49974	" "	3 "	30	" "	.....
" 17	Cream Soda...	49975	" "	3 "	30	" "	.....
DISTRICT OF VICTORIA—							
Oct. 7	Ginger Ale...	57649	H. A. Lilley, 1417 Douglas, st., Victoria, B.C.	3 bots.	30	Thorpe & Co., Ltd. Victoria, B.C.	.....
" 7	"	57650	" "	3 "	15	C. Marleys, Victoria, B.C.	.....
" 7	Lime Juice and Soda...	57652	V Paul, 611 Johnston, st., Victoria, B.C.	3 "	15	Kirk & Co., Ltd., Victoria, B.C.	.....
" 15	Iron Brew....	57654	John Balma, 812 Yates, st., Victoria, B.C.	3 "	15	Regal Mineral Water Co., Victoria, B.C.	.....
" 18	Root Beer....	57665	K. Peppas, Cook and North Park, st., Victoria, B.C.	3 "	15	Kirk & Co., Ltd., Victoria, B.C.	.....
" 18	Lemonade ...	57666	" "	3 "	15	" "	.....
" 18	Ginger Beer..	57667	" "	3 "	30	" "	.....
" 18	Lemonade....	57668	" "	3 "	15	Royal Mineral Water Co, Victoria, B.C.	.....
" 21	Ginger Ale...	57670	W. Stamatarous, 620 Yates, st., Victoria, B.C.	3 "	15	Thorpe & Co., Ltd, Victoria, B.C.	.....
" 21	Raspberryade.	57671	" "	3 "	15	" "	.....

SESSIONAL PAPER No. 14

SOFT DRINKS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
THOS. PARKER, INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.					
...	7·49	2·83	4·40	7·23	0 26	0·157	0·33	None	None	... .	49963	
.....	9·71	3·92	4·53	8·45	1·26	0·150	0·26	„	„	....	49964	
.....	6·52	3·63	2·21	5·84	0 68	0·165	0·07	„	„	.....	49965	
....	7·16	5·00	2 00	7·00	0·16	0·20	0·20	„	„	....	49966	
.. ..	0 060	.....	.. .	....	... ...	.	.....	.....	.....	Bases present, sodium & Calcium.	49967	
..... .	7·22	1 01	5·76	6·77	0 45	0·157	0·60	None	None	....	49971	
. .....	9·00	1·78	6·07	7·85	1·15	0 375	0·20	Present.	„	.....	49972	
....	9·42	4 87	3·38	8·25	1 17	0·125	0 20	None	„	....	49973	
.....	6·98	1·91	4·91	6 82	0 16	0·060	0·20	„	„	... .	49974	
....	7·13	1·01	5·76	6·77	0 36	0·038	0 33	„	„	.....	49975	
D. O'SULLIVAN, INSPECTOR.												
Ye. old fashioned Ginger Ale.	6·58	2 59	2·33	4·92	1 66	0·315	1 13	None	None	....	57649	
....	5 86	3 75	1·75	5·50	0·36	0 225	0 33	Present.	„	....	57650	
... .	5·80	4 66	0·40	5·06	0·74	0·20	0 045	None	„	... .	57652	
.....	5·46	1 88	3·20	5·08	0 38	0·202	0·07	„	„	.. ..	57654	
....	5·93	1 27	3 63	5·00	0·93	0·20	0·045	„	„	... .	57665	
.....	4·78	2 46	1·25	3·71	1·07	0·203	0 33	„	„	....	57666	
Old English	3·41	2·12	0 45	2·58	0 83	0·352	0·86	„	„	.....	57667	
.....	5·18	1·41	3·70	5·11	0·07	0·112	0·46	Present.	„	.. ... .	57668	
....	3·70	2 05	1·49	3·54	0 16	0·210	0 20	None	„	.....	57670	
....	3·75	2 10	1 58	3·68	0·07	0·150	0·20	„	„	Artificial flavour.	57671	

APPENDIX X

BULLETIN No. 281—BUTTER

Ottawa, March 17, 1914.

Wm. Himsworth, Esq.,
Deputy Minister, Inland Revenue.

Sir,—I beg to hand you a report upon 340 samples of butter collected throughout Canada by our inspectors during the months of November and December of 1913 and January of this year. To this is added as an appendix a report of 26 samples collected in March 1913, in the district of Quebec, for the special purpose of ascertaining whether oleo-margarine was being offered in these markets, as was asserted by some parties who claimed to knowledge in the matter. It was under the especial guidance of these parties that the market was examined ; and it is satisfactory to find that all samples obtained were found to be genuine.

Butter is legally defined, by Order in Council of 3rd November 1910, as the clean non-rancid product made by gathering, in any manner the fat of fresh or ripened milk or cream into a mass, which also contains a small portion of the other milk constituents with or without salt, and contains not less than eighty-two and five tenths (82·5) per cent milk fat, and not more than (16) sixteen per cent of water. Butter may also contain added colouring matter of harmless character.

The sum of minimum legal fat and maximum legal water in butter is 98·5 per cent of its weight ; whence it appears that in a butter containing a maximum amount of permissible water, the salt, curd, lactose, albumens and other milk constituents, traces of which are always present in butter, are in the aggregate amount limited to one and one half (1·5) per cent. If it be desired to introduce more than about one per cent of salt into butter, this must be done by cutting down the water content ; and as a matter of fact, it is rare to find 16 per cent of water in butter. Only five samples of the present collection exhibit more than 16 per cent of water, namely :—

Samples No.	Water p.c.	Fat p.c.	Salt p.c.
56192	16·75	78·69	4·56
59291	16·44	83·47	0·09
53247	20·28	76·68	3·04
53250	16·48	80·84	2·78
51821	16·94	81·47	1·59

And the butter fat is necessarily low in all of these samples which contain appreciable amounts of salt. No. 59291 contains only traces of salt, and the butter-fat is quite satisfactory.

The fat content is, of course, the most important datum in judging butter, and is that which determines the cost of butter production. It may be reduced by addition of excessive salt or water. For this reason, a limit is placed upon the percentage of water which may be present in legal butter; and although no definite limit is placed upon the salt content, it is evident that the numerical requirements for fat and water effectively determine a limit of about 7 per cent. For the normal content of water in good butter is about ten per cent while the curd and other milk components, always present in traces usually aggregate about one half of one per cent. When butter contains above 7 per cent of salt it is not only unsatisfactory to the taste on this account, but is usually low in butter fat.

When water is present in considerable excess, it is usual for some portion of it to separate on standing; and even when not in excessive amount, water may separate to the extent of one or two per cent. This water was sold and presumably weighed with the butter, and should in strict justice to the purchaser, be reckoned as part of his purchase. In the present instance, I have granted the vendor whatever advantage such moiety of water may give him; but this must not be regarded establishing a precedent for such action.

No foreign fats have been found in any of these samples.

The following synopsis shows the results of this inspection :—

	Samples.
Found genuine	316
Passed as within reasonable and explicable limits of error	18
Adulterated for excess of water, or for notable deficiency in butter fat	6
Samples reported in appendix	26
Total	366

I beg to recommend publication of this report as Bulletin No. 281.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF NOVA SCOTIA—				
1913.							
Dec. 15	Butter	53813	D. C. Mulhall, Liverpool, N.S.	2 lbs.	66	Unknown	Jno. Tobin & Co., Halifax, N.S.
1914.							
Jan. 27		53814	Jas. A. Leaman & Co., Halifax, N.S.	2 "	76	Brookfield Creamery Co., Brookfield, N.S	Manufacturers.
" 27		53815	P. T. Shea, Halifax, N.S.	2 "	70	Crapaud Creamery Co., Crapaud, P.E.I.	"
" 27	"	53816	Rooney & Lovett, Halifax, N.S.	2 "	66	F. W. Foster, Kingston, N.S.	Manufacturer.
" 27	"	53817	Wentzells, Ltd., Halifax, N.S.	2 "	70	AcadiaCreameryCo., Kingston, N.S.	Manufacturers.
" 27	"	53818	F. S. Burns & Co., Halifax, N.S.	2 "	68	Illsley Bros., Berwick, N.S.	"
" 27	"	53819	Geo. Hirschfeld, Halifax, N.S.	2 "	70	Unknown	A. Patterson, Patterson Siding, N.S.
" 27	"	53820	I. E. Sanford, Halifax, N.S.	2 "	70	"	Olive & Stroud Montreal.
" 27	"	53821	F. S. Short, Halifax, N.S.	2 "	70	"	Smith & Proctor, Halifax, N.S.
" 28	"	53822	R. B. Calwell, Halifax, N.S.	2 "	60	"	A. Rockwell, Kings Co., N.S.
" 28	"	53823	Linton & McLeod, Halifax, N.S.	2 "	64	"	C. H. Crowe, Montrose, Colchester Co., N.S.
" 28	"	53824	B. H. Dodge & Co., Kentville, N.S.	2 "	56	L. Cogswell, Belcher st., Kings Co., N.S.	Manufacturer
" 29	"	53825	Wentworth Stores, Windsor, N.S.	2 "	70	Mrs. A. Clark, Clarksville, N.S.	"
" 29	"	53826	John Lynch & Son, Windsor, N.S.	2 "	70	Unknown	S. T. Jefferson, Lawrencetown, N.S.
" 30	"	53827	A. D. Bruce, Halifax, N.S.	2 "	66	"	Banks & Williams, Halifax, N.S
" 30	"	53828	Estate of H. W. Brown, Halifax, N.S.	2 "	70	"	P. T. Shea, Halifax, N.S.
" 30	"	53829	S. Thomson, Dartmouth, N.S.	2 "	61	"	F. J. Holman, Ch'town, P.E.I.
" 30	"	53830	Colin McNab & Co., Dartmouth, N.S.	2 "	70	J. C. Welton, North Kingston, N.S.	Manufacturer.
" 30	"	53831	A. W. Huxtable, Dartmouth, N.S.	2 "	68	A. C. Bates, M Musquodoboit, N.S.	"
" 30	"	53832	Coleman & Eisenor, Dartmouth, N.S.	2 "	70	Unknown	Smith & Proctor, Halifax, N.S.

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Water. Separated.	Water. Incorporated.	Water. Total.	Ash.	Butyro-refractometer at 40°c.	Reichert Meissl No.	Fat by Difference.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.									
	p. c.	p. c.	p. c.	p. c.			p. c.		
Canadian Tub	0·25	9·18	9·43	2·56	42·6	...	88·26	53813	Genuine.
Creamery Flat	0·75	9·20	9·95	2·90	43·0	...	87·90	53814	"
" Block	0·75	12·25	13·00	3·25	42·4	...	84·50	53815	"
Dairy	0·25	11·88	12·13	2·68	42·0	...	85·44	53816	"
Creamery Flat	1·50	12·02	13·52	2·80	41·6	...	85·18	53817	"
" "Scotia" Brand.	0·25	13·00	13·25	2·26	42·0	...	84·74	53818	"
Dairy	1·00	11·68	12·68	3·70	41·6	...	84·62	53819	"
Block Creamery		11·16	11·16	3·76	43·4	...	85·08	53820	"
Dairy Block	0·25	12·68	12·93	2·40	42·4	...	84·92	53821	"
" Print	1·25	8·32	9·57	6·42	41·4	...	85·26	53822	"
Tub		7·97	7·97	6·35	44·0	...	85·68	53823	"
"		10·16	10·16	3·55	41·0	...	86·29	53824	"
"	0·25	10·02	10·27	4·80	43·2	...	85·18	53825	"
" Print	2·00	12·00	14·00	5·60	42·0	...	82·10	53826	"
"	0·25	10·70	10·95	8·00	43·2	...	81·30	53827	Deficiency of fat, due to excess of salt. Pass.
"		10·18	10·18	1·97	41·2	...	87·85	53828	Genuine.
"	0·50	10·92	11·42	7·36	42·0	...	81·72	53829	Deficiency of fat, due to excess of salt. Pass.
	1·00	12·62	13·62	0·94	42·6	...	86·44	53830	Genuine.
"	0·50	10·50	11·00	1·92	43·8	...	86·58	53831	"
	1·00	9·95	10·95	2·58	45·2	23·7	87·17	53832	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF NEW BRUNSWICK—	
1913.							
Nov 26	Butter	59313	R. H. Cother, St. John, N.B.	2 lbs.	74	Vendor.	
" 26	"	59314	W. H. Bell, St. John, N.B.	2 "	74	"	
Dec. 8	"	59315	M. E. Grass, St. John, N.B.	2 "	66		Matthews, Laing Co., Toronto, Ont.
" 8	"	59316	Harry G. McBeath, St. John, N.B.	2 "	64		G. E. Barbour Co., Ltd,, St. John, N.B.
" 8	"	59317	Vanwart Bros., St. John, N.B.	2 "	76	Sussex Cheese & Butter Co., Sussex, N.B.	
" 9	"	59318	W. Fenwick, St. John, N.B.	2 "	60	Farmers' Trading Harvey York Co., N.B.	
" 9	"	59319	W. C. Broadbent, St. John, N.B.	2 "	74	Farmers' Dairy & Produce Co., St. John, N.B.	
" 12	"	59320	P. Nase & Son, St. John, N.B.	2 "	70	Amos Hood, Magaguadarie, York Co., N.B.	
" 12	"	59321	W. H. Dunham, St. John, N.B.	2 "	70		Jones & Schofield, St. John, N.B.
" 12	"	59322	W. J. Dalton, St. John, N.B.	2 "	64		Puddington, Wetmore, Morrison Ltd., St. John, N.B.
" 17	"	59323	P. J. McKenna, St. Stephen, N.B.	2 "	68	David Scott, St. James, Charlotte N.B.	
1914.							
Jan. 6	"	59324	John McCluskey, Fredericton, N.B.	2 "	70	Matthew-Laing Co., Toronto, Ont.	
" 6	"	59325	E. J. Hoben, Fredericton, N.B.	2 "	70	Unknown	Unknown.
" 7	"	59326	E. A. Binden, Woodstock, N.B.	2 "	65	Geo. Sharp, Pembrook, Carleton Co., N.B.	
" 7	"	59327	Watson & True, Woodstock, N.B.	2 "	64	Geo. McLeod, Farmerston, Carleton Co., N.B.	
" 8	"	59328	B. Beveridge, Andover, N.B.	2 "	70	W. W. Wilson & Co., Centreville. Carleton Co., N.B.	
" 13	"	59329	Sussex Mercantile Co., Sussex, N.B.	2 "	64	Unknown	Unknown.
" 11	"	59330	H. T. Brewester, Moncton, N.B.	2 "	64	Mrs. Arthur Steeves, Coverdale, Albert Co., N.B.	
" 14	"	59331	Mrs. P. White, Moncton, N.B.	2 "	70	Pure Milk Co., Moncton, N.B.	
" 16	"	59332	J. B. Snowball Co., Ltd., Chatham, N.B.	2 "	70	Maritime Dairy Co., Ltd., Sussex, N.B.	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refractometer at 40°c.	Reichert Meissl No.	Fat by Difference.		
	Separated.	Incorporated.	Total.						
J. C. FERGUSON, INSPECTOR.									
	p. c.	p. c.	p. c.	p. c.			p. c.		
Creamery Prints	.....	11·70	11·70	5·00	43·2	...	83·30	59313	Genuine.
"	1·00	10·90	11·90	3·44	43·2	.....	85 66	59314	"
Tub	...	8·88	8·88	2·37	43·4	....	88·75	59315	"
Dairy Tub	.....	7·91	7·91	5·95	44·5	29·8	86·14	59316	"
Creamery Prints	1·00	9·23	10·23	2·27	43·2	...	88·50	59317	"
Country "	....	10·36	10·36	3·02	45·4	23·6	86·62	59318	"
Creamery	2·00	7·93	9 93	2·68	43·8	..	89 39	59319	"
Dairy Prints	...	11·00	11·00	2·42	44·0	.....	86·58	59320	"
Creamery Tub	4·30	12·11	16·41	2·19	45 0	28·1	84 70	59321	"
Dairy Tub	...	6·52	6·52	2·25	43·9	.....	91·23	59322	"
Dairy Prints	4·10	12 50	16·60	4 60	43·4	.....	82·90	59323	"
Dairy Prints, ("Anchor" Brand).	.....	9·70	9·70	1 43	44·2	.....	88·87	59324	"
Country Prints	1·00	10·80	11·80	4 33	42 4	.....	84·87	59325	"
"	0·20	8·37	8·57	3·84	43·1	.....	87 79	59326	"
Choice Dairy	.. ..	10·02	10·02	2 52	41 6	. ..	87·43	59327	"
Country Prints	0 50	10·10	10 60	4·08	43 2	.....	85·82	59328	"
Dairy	.	10 77	10·77	2 01	45·4	22 3	87 22	59329	"
" Farm	1·00	9 25	10 25	5·70	42·0	.....	85·05	59330	"
Creamery	2·00	10·88	12·88	2 08	42·4	.....	87·04	59331	"
"	.....	10·05	10·05	2 94	43·8	. ..	87 01	59332	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF QUEBEC—							
1913.							
Nov. 25	Butter.....	56186	Eugène Lacasse, 48 rue St, Ambroise, Quebec.	2 lbs..	68	Unknown.	Emond & Coté.
" 25	"	56187	J. B. Lapointe, 59 rue St. Ambroise, Quebec.	2 "	64	"	" ..
" 25	"	56188	N. Coté, 79 rue St. Ambroise, Quebec.	2 "	64	"	J. B. Renaud & Cie.
" 26	"	56189	C. Bédard, 588½ rue St. François, Quebec.	2 "	70	"	"
" 26	"	56190	Eudore Delisle, 2me ave Tachereau, Quebec.	2 "	64	.....	Octave Jacques
" 26	"	56191	J. P. Gagnon, 109 rue St. Ambroise, Quebec.	2 "	60	"	Emond & Coté.
" 26	"	56192	J. P. Gagnon, 109 rue St-Ambroise, Québec.	2 "	68	"	" ..
" 27	"	56193	F. Picard, 117 rue St. Ambroise, Quebec.	2 "	64	"	" ..
" 27	"	56194	Victor Beaupré, 59 rue Carillon, Quebec.	2 "	66	"	" ..
" 27	"	56195	J. H. Debonville, 11 ave Renaud, Quebec..	2 "	64	"	Dom. Fish & Fruit Co.
" 27	"	56196	L. Desgagné, 914 rue St. Valier, Quebec.	2 "	70	"	Emond & Coté.
" 28	"	56197	Emiline Blouin, 30 rue Carillon, Quebec.	2 "	64	"	J. B. Renaud & Cie.
" 28	"	56198	Jos. Poulin, 26 ave Renaud, Quebec.	2 "	64	"	"
" 28	"	55199	Louis Blouin, 81 ave Reneaud, Quebec.	2 "	64	"	Dom. Fish & Fruit Co.
" 28	"	56200	Z. Goslin, 975 rue St. Valier, Quebec.	2 "	64	"	J. B. Renaud & Cie.
Dec. 1	"	56001	Jos. Blouin, 36 rue Chateauguay, Quebec.	2 "	60	Beurre, St. Jean, Isle Orleans.	Manufacturers.
" 1	"	56002	H. Plante, 182 rue Durocher, Quebec.	2 "	64	Unknown.....	F. X. Lachance.
" 1	"	56003	F. X. Lachance, 185 rue Bayard, Quebec.	2 "	56	Beurre, St. Jean, Isle Orleans.	Manufacturers.
" 1	"	56004	O. Pichette, 164 rue Chateauguay, Quebec.	2 "	64	Beurre, Ancienne Lorette.	"
" 2	"	56005	T. Lebel, 86 rue Durocher, Quebec.	2 "	64	Unknown	Edmond Sylvain
DISTRICT OF EAST QUEBEC—							
Dec.	Butter.....	2407	N. Pelletier, jr., Cap Chat.	2 lb..	52	Hipolite Soucy, Cap Chat.	.....
"	"	2414	Cyril Charest, Matane.	2 " ..	56	Jos. Mury, Matane	.....

SESSIONAL PAPER No. 14

BUTTER

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Water. Separated	Water. Incorporated.	Water. Total.	Ash.	Butyro-refractometer at 40° c.	Reichert Meissl No.	Fat by Difference.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
F. X. W. E. BELAND, INSPECTOR.									
	p. c.	p. c.	p. c.	p. c.			p. c.		
		14·33	14·33	1·37	44·2		84·30	56186	Genuine.
		15·28	15·28	1·92	43·6		82·80	56187	"
		9·37	9·37	2·00	43·3		88·63	56188	"
		13·40	13·40	2·82	43·8		83·78	56189	"
		12·18	12·18	3·28	48·6		84·54	56190	"
		11·93	11·93	5·46	43·2		82·61	56191	"
		16·75	16·75	4·56	43·9		78·69	56192	Excess water and deficiency of fat adulterated.
		13·80	13·80	2·11	43·8		84·09	56193	Genuine.
		15·18	15·18	0·94	43·1		83·88	56194	"
		12·39	12·39	2·77	43·8		84·84	56195	"
		12·32	12·32	1·25	43·4		86·43	56196	"
		10.00	10·00	2·47	43·3		87·53	56197	"
		11·78	11·78	2·18	44·1		86·04	56198	"
		13·18	13·18	1·75	44·2		85·07	56199	"
		13·75	13·75	2·60	43·2		83·65	56200	"
		11·75	11·75	1·29	43·1		86·96	56001	"
		11·69	11·69	1·51	43·4		86·80	56002	"
		11·30	11·30	3·81	44·0		84·86	56003	"
		11·45	11·45	9·36	44·0		79·19	56004	Deficiency of fat due to excess salt adulterated. *
		8·55	8·55	2·36	43·8		89·09	56005	Genuine.
ALP. PELLETIER, INSPECTOR.									
	2·50	8·14	10·64	3·13	44·0		88·73	2407	Genuine.
	2·00	8·73	10·73	3·80	44·2		87·47	2114	"

* The manufacturers explain excess of salt in this sample as having been added to meet the demand of certain patrons who required a heavily salted butter.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EAST QUEBEC—							
1914.							
Jan. 10	Butter	2430	A. F. Boutin, St. Flavie	2 lbs.	60	Jos. Dubé, St. Joseph	
" 10	"	2441	C. Leteque & Co, St. Flavie.	2 "	70	François Baulin, St. Flavie.	
" 12	"	2444	A. Voyer, St. Flavie	2 "	60	Thomas Beaulieu, St. Flavie.	
" 12	"	2447	J. A. Dufour, St. Flavie.	2 "	60		Matthews-Laing Co., Toronto.
" 13	"	2451	Belasence & Co, Rimouski.	2 "	60	Ant. Gagnon, St. Flavie.	
" 13	"	2454	Talbot, Lim., Rimouski.	2 "	70		Matthews-Laing Ltd., Toronto.
" 15	"	2458	R. Levesque, R. du Loup	2 "	66	J. B. Therriault, St. Modeste.	
" 15	"	2459	H. Pagé, R. du Loup	2 "	66	Ludger Voyer, St. Antonin.	
" 15	"	2462	J. S. Proulx, R. du Loup	2 "	64	" "	
" 15	"	2464	P. Ouellet, R. du Loup.	2 "	60	Unknown	
" 15	"	2466	Ouellet & Ouellet, R. du Loup.	2 "	60	Syndicat de R. du Loup.	
" 15	"	2467	J. L. Drolet, R. du Loup	2 "	64	Matthews-Laing Co., Toronto.	
" 15	"	2469	E. Michaud, R. du Loup	2 "	70	L. Voyer, St-Antonin.	
" 16	"	2471	Jos. St. Pierre, R. du Loup.	2 "	60	S. Michaud, St. Alexandre.	
" 16	"	2472	Ed. Lapointe, Fraserville.	2 "	64	Aug. Breton, St. Epiphanie.	
" 16	"	2473	Jos. Viel, Fraserville	2 "	70	J. B. Therriault, St. Modeste.	
" 16	"	2475	V. Drolet, Fraserville	2 "	70	" "	
" 16	"	2477	J. B. Michaud, Fraserville.	2 "	64		Matthews-Laing, Montreal.
DISTRICT OF THREE RIVERS—							
1913.							
Nov. 23	Butter	59754	Edouard Desrosiers, St. Félix.	3 lbs.	90	Vendor	
" 25	"	59759	Edouard Frechette, St. Félix.	"	90	"	
" 26	"	59760	Moïse Boucher, St. Mélanie.	"	90	"	
" 26	"	59761	Albert Massicotte, St. Mélanie.	"	90	"	
" 26	"	59762	Samuel Pelerin, St. Mélanie.	"	90	"	
" 27	"	59763	Alfred Desrosiers, St. Elizabeth	"	90	"	
" 27	"	59764	Anselme Plante, St. Elizabeth.	"	90	"	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refractometer at 40°c.	Reichert Meissl No.	Fat by Difference.		
	Separated.	Incorporated.	Total.						
Concluded.									
	p.c.	p.c.	p.c.	p.c.			p. c.		
	0·70	7·55	8 25	1·19	44·2	.....	91·26	2439	Genuine.
	2 00	11 30	13 30	2·59	42·4	.....	86·11	2441	"
	2 50	8·31	10·81	1 57	43·0	.....	90·12	2444	"
	.....	10·55	10·55	1 76	44·8	27·6	87·69	2447	"
	2·20	9·28	11·48	3·68	43·0	.....	87·04	2451	"
	1·30	9·94	11·24	2·07	44·0	.....	87·99	2454	"
	.....	12·58	12·58	1·93	43·4	.....	85·49	2458	"
	0·30	11·79	12 09	2 90	44 0	....	85·31	2459	"
	0·30	10·11	10·41	3·33	44·2	.....	86·59	2462	"
	1 00	10·00	11·00	6·13	44·2	. ...	83·87	2464	"
	1·00	10·96	11·96	1·74	43·2	.....	87·30	2466	"
	.....	7 95	7·95	1·49	45 0	28·0	90·56	2467	"
	.....	12·68	12·68	3·15	44·2	.....	84·17	2469	"
	1·00	11·35	12·35	4·32	43·6	.. ...	84·33	2471	"
	0·50	11·10	11·60	2·73	43·8	....	85·17	2472	"
	.....	13·96	13·96	2·27	43·4	.....	83·77	2473	"
	0·40	13·49	13·89	2·59	44·2	.....	83·92	2475	"
	.....	5·87	5·87	1·27	45·0	27·7	92·86	2477	"

DR. V. P. LAVALLÉE, INSPECTOR.

	....	12·02	12 02	1·03	43·4	.....	86·95	59754	Genuine.
	....	12·52	12 52	2·60	43 0	.....	84·88	59759	"
	.....	12·56	12·56	1·06	43·0	.....	86·38	59760	"
	.....	12·18	12·18	2·44	44·2	.....	85·38	59761	"
	....	9·18	9·18	2·49	43·8	.....	88·33	59762	"
	.....	10·28	10·28	2·26	42·1	.....	87·46	59763	"
	.....	11·88	11·88	0·93	44·0	.....	87·19	59764	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF THREE RIVERS—							
1913.							
Nov. 28	Butter.....	59765	Ulric Desroches, St. Gabriel.	3 lbs.	90	Vendor.	
" 9	"	59766	Henri Lavallée, St. Gabriel.	"	90	"	
" 29	"	59767	Joseph Contin, St. Gabriel.	"	90	"	
Dec. 2	"	59768	Agnus Roy, St. Jean de Matha.	"	90	"	
" 3	"	59769	Eucher Guerard, St. Felix.	"	90	"	
" 3	"	59770	Alexis Rainville, St. Félix.	"	90	"	
" 4	"	59771	Joseph Longpré, Ste. Eméline.	"	90	"	
" 4	"	59772	Albert Champagne, Ste. Eméline.	"	90	"	
" 5	"	59773	Camille Joly, Ste. Eméline	"	90	"	
" 5	"	59774	William Landreville, St. Jean de Matha.	"	90	"	
" 6	"	59775	Auguste Boucher, St. Cléophas.	"	90	"	
" 6	"	59776	Narcisse Gadbourry, St. Jean de Matha.	"	90	"	
" 11	"	59777	Octavien Roberge, St. Norbert.	"	90	"	Roberge, St. Norbert.
DISTRICT OF EASTERN TOWNSHIPS—							
Dec. 9	Butter.....	2201	Thériault & Leduc, Sherbrooke.	2 lbs.	60	A. W. Burton, Ascot	
" 9	"	2202	A. Boisvert, Sherbrooke	2 "	66	Unknown	
" 10	"	2203	G. Giromard, Victoriaville.	2 "	64	C. Desfosse, St. Valier de Beel'de.	
" 10	"	2204	F. Paquette, Windsor Mills.	2 "	64	N. Boucher, Windsor Mills.	
" 11	"	2205	J. B. Le Baron, Ltd., No. Hatley.	2 "	66	J. W. McKay, No. Hartley.	
" 12	"	2206	Aimé Cardin, Actonvale.	2 "	60	A. Ménard, Actonville.	
" 15	"	2207	O.F. Piché, Drummondville.	2 "	64	E. Carrignan, Drummondville.	
" 15	"	2208	F. P. Williams, Knowlton.	2 "	51	Geo. Gorgette, Bolton Glen.	
" 16		2209	J. P. McMahon, West Shefford.	2 "	65	West Shefford, Creamery.	
" 16	"	2210	A. S. Kendall & Co., Lawrenceville.	2 "	60	Mrs. H. Hudon, Lawrenceville.	
" 16	"	2211	R. H. Peardon, Eastman.	2 "	64	R. Rogers, Eastman.	
" 16	"	2212	Jas. Aramotte, Magog.	2 "	70		Gun Langlois & Co., Ltd, Montreal.
" 17	"	2213	H. Bird, Waterloo, P.Q	2 "	62	A. Young, Waterloo, P.Q.	
" 17	"	2214	Sweet Bros., Granby.	2 "	64	Unknown	Unknown

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.								Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refractometer at 40° C.	Reichert Meissl No.	Fat by Difference.	No. of Sample.	
	Separated.	Incorporated.	Total.						
Concluded.									
	p. c.	p. c.	p. c.	p. c.			p. c.		
	.....	11·15	11·15	2·98	43·6	.....	85·87	59765	Genuine
	.....	9·68	9·68	1 10	43·9	.....	89·22	59766	"
	.....	12·76	12·76	2 66	43 6	. .	84 58	59767	"
	.....	13·20	13·20	2·10	43·4	. ..	84·70	59768	"
	.. ...	9 60	9·60	3 09	42·2	.....	88·31	59769	"
	5 00	12·28	17·28	3·04	43 0	.. ...	84·68	59770	"
	.....	10·68	10·68	2·64	43 6	.. .	86 68	59771	"
	. ..	11·55	11·55	2·21	42·8	.....	86·24	59772	"
	. . .	12·40	12·40	1·42	44 0	.....	86·18	59773	"
	....	11·28	11·28	1·66	43·8	. ..	87·06	59774	"
	...	10·56	10·56	2·52	43·5	.....	86·92	59775	"
	.....	12·90	12·90	1·99	44·4	25·7	85·11	59776	"
	. ....	8·28	8 28	1·65	43·4	..	90·07	59777	"
J. C. ROULEAU, INSPECTOR.									
	3·00	9·45	12·45	3·06	43·4	.....	87·49	2201	Genuine.
	1·00	5·91	6·91	3 11	42 8	.....	90·98	2202	"
	.....	14·30	14 30	1·18	43·4	.....	84·52	2203	"
	..	9·90	9·90	4·87	43·6	.....	85 23	2204	"
	.....	10 50	10·50	3·33	43·0	.. ..	86·11	2205	"
	.....	12·28	12 28	3·04	43·8	.....	84 68	2206	"
	.....	14·32	14·32	2·82	43·2	. ....	82·86	2207	"
	.....	13·61	13·61	3·92	44·2	.....	2·47	2208	"
	.....	13·30	13·30	7·13	43·5	.....	79·57	2209	"
	.....	11 92	11·92	1·52	43·1	.....	86·56	2210	"
	.....	13·22	13·22	1·97	43·3	.. ...	84·81	2211	"
	.....	9 42	9·42	1·23	44·3	.....	89·35	2212	"
	2·20	8·40	10·60	4·12	42·8	.....	87·48	2213	"
	.....	10·60	10 60	3 07	42·6	.....	86· 3	2214	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1914.							
Jan. 14	Butter.....	2215	A. Dionne, St. Georges, P.Q.	2¼ lbs.	62	Unknown	Unknown ....
" 15	"	2216	La Cie Avaid & Nadeau Lim., Valley Junction.	2 "	56	"	" ....
" 15	"	2217	J. E. Lacoursière, St. Victor de Tring.	2 "	52	"	" ..
" 15	"	2218	Morency & Fils, St. Evariste.	2 "	50	"	" ....
" 20	"	2219	J. S. Gingras, Marieville.	2 "	68	.....	Matthews Ltd. Montreal.
" 22	"	2220	J Brousseau, St. Hyacinthe.	2 "	62	R. St. Jean, St. Barnabé.	....
DISTRICT OF MONTREAL—							
1913.							
Dec. 3	Butter.....	58761	F. P. Horan, 1607 St. Lawrence blvd., Montreal.	2 lbs.	68	....	Canadian Swift Co.
" 3	"	58762	C. E. Oliver, 1798 St. Lawrence blvd., Montreal.	2 "	70	J. J. Joubert, Lim., Montreal.	....
" 9	"	58763	A. Walgensinger, 394 Charlevoix st., Montreal.	2 "	70	....	Gunn, Langlois & Cie, Montreal.
" 9	"	58764	J. A. Bourdeau, 305 Charlevoix st., Montreal.	2 "	70	....	J. A. Vaillancourt, Montreal
" 9	"	58765	D. Hadden, 1 Rushbr'ke st., Montreal.	2 "	68	....	Olive Dorion & Stroud, Montreal.
" 9	"	58766	A. O. Galarneau, 624 Wellington st., Montreal.	2 "	66	....	Matthews, Ltd., Montreal.
" 9	"	58767	Ed. Upton, 358 Bourgeois st., Montreal.	2 "	68	.....	Swift Canadian Co.
" 9	"	58768	J. Pringle, 340 Bourgeois st., Montreal.	2 "	70	....	Whyte Packing Co.
" 11	"	58769	J. Stetson, 364 Hibernia st., Montreal.	2 "	68	....	Matthews, Ltd..
" 11	"	58770	N. Fortin, 80 Coleraine st., Montreal.	2 "	66	....	Lunham & Graham, Montreal
" 11	"	58771	P. Blais, 288 Liverpool st., Montreal.	2 "	64	....	Jas. J. Dalrymple & Sons, Montreal.
" 12	"	58772	H. Benoit, 340 Charron st, Montreal.	2 "	68	....	..
" 16	"	58773	E. Lamarche, 2,101 St. Lawrence blvd., Montreal.	2 "	68	Lamarche & Lachapelle, St. Esprit.	... .
" 16	"	58774	E. Morin, 2301 St. Lawrence blvd , Montreal.	2 "	68	....	Swift Canadian Co.
17	"	58775	J. A. Tardif, 2441 Clark st., Montreal.	2 "	70	....	Matthews Ltd.

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Water. Separated.	Water. Incorporated.	Water. Total.	Ash.	Butyro-refractometer at 40°C.	Reichert Meissl No.	Fat by Difference.	No. of sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
	p.c.	p.c.	p.c.	p.c.			p. c.		
.. ..	2·00	11·05	13·05	8·23	43·6	.....	80·72	2215	Deficiency of fat, due to excess of salt. Pass.
....	1·25	10·70	11·95	2·47	42·6	.....	86·83	2216	Genuine.
....	2·50	11·62	14·12	6·45	44·2	.....	81·93	2217	Slight deficiency of fat due to excess of salt. Pass.
....	2·50	13·30	15·80	2·57	43·2	.....	84·13	2218	Genuine
....	.....	11·97	11·97	1·21	43·8	.....	86·82	2219	"
.. ..	.....	12·45	12·45	2·82	43·6	.....	84·73	2220	"

D. J. KEARNEY, INSPECTOR.

....	....	13·36	13·36	1·35	42·6	.....	85·29	58761	Genuine.
....	.....	12·30	12·30	2·28	42·5	.....	85·42	58762	"
.. ..	.....	11·95	11·95	2·18	45·0	29·9	85·87	58763	"
.....	.....	15·05	15·05	1·98	44·1	.....	82·79	58764	"
.. ..	0·50	10·40	10·90	1·30	45·2	26·4	88·21	58765	"
. .. .	0·25	12·95	13·20	1·17	44·9	25·6	85·88	58766	"
.. ..	.....	13·77	13·77	1·97	44·2	. .	84·26	58767	"
.. . .	.....	11·57	11·57	1·47	43·0	....	86·96	58768	"
....	1·00	10·42	11·42	2·97	43·2	....	86·61	58769	"
....	0·70	10·22	10·92	1·36	44·7	28·1	88·42	58770	"
....	.....	12·80	12·80	2·16	44·2	. .	85·04	58771	"
.....	. ....	13·18	13·18	2·54	41·2	.... .	84·28	58772	"
....	1·50	12·20	13·70	1·88	44·2	.....	85·92	58773	"
....	.....	14·10	14·10	1·03	44·0	.....	84·87	58774	"
....	.....	14·72	14·72	2·24	43·0	.....	83·10	58775	

Date of Collection.	Nature of Sample.	No. of sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF MONTREAL—				
1913.							
Dec. 17	Butter	58776	W. Desrosiers, 69 Bernard, Montreal.	2 lbs.	68		Gunn, Langlois
" 18	"	58777	St. George Grocery, 56 Bernard, Montreal.	2 "	70		W. Champagne.
" 18	"	58778	Alf. Boivin, 2498 Waverley st., Montreal.	2 "	68		A. Ayer & Co.,
" 18	"	58779	J. I. Blair & Co., 113 Bernard, ave., Monreal.	2 "	70	Jas. Dalrymple & Sons.	
" 22	"	58780	J. A. Ménard, 59 Richmond st., Montreal.	2 "	70	" "	
			DISTRICT OF ARGENTEUIL, TWO MOUNTAINS AND TERREBONNE—				
Dec. 5	Butter	2302	Wilfrid Mayer, St. Jerome, P.Q.	2 lbs.	64	J. B. Lanthier, St. Hypolite, P.Q.	
" 22	"	2303	Charles Tallon, St. Jerome, P.Q.	2 "	64	Delphin Dion	
" 22	"	2304	Alcide Beauchamp, St. Jerome, P.Q.	2 "	70	Wilbrod Gareau	
" 19	"	2306	Anicet Leduc, St. Agathe des Monts.	2 "	76	Brookfield Creamery	
			DISTRICT OF VALLEYFIELD—				
1914.							
Jan. 26	Butter	58580	L. Moreau, St. Johns, P.Q.	2 lbs.	64	L. Larocque, Lacadie	
" 26	"	58581	W. R. Simpson, St. Johns, P.Q.	2 "	68		Z. Limoges, Montreal.
" 26	"	58582	A. L. Duhamie, St. Johns, P.Q.	2 "	56		Unknow.
" 26	"	58583	M. A. Comtis, St. Johns, P.Q.	2 "	64		Wm Davies, Montreal.
" 26	"	58584	T. Lacoste, St. Johns, P.Q.	2 "	66		Wm Copping, St. Johns.
" 28	"	58585	J. G. Léonard, Beauharnois.	2 "	66	Donat Dagenais, Beauharnois.	
" 28	"	58586	J. A. Faubert, Beauharnois.	2 "	66	E. I. McGowan, St. Martin.	
" 28	"	58587	O. Marchand, Beauharnois.	2 "	66	" "	
" 28	"	58588	M. Martin, Beauharnois	2 "	66	" "	
" 28	"	58589	J. L. E. Guimond, Beauharnois.	2 "	64	" "	
" 30	"	58590	Bonneville Gagnon & Cie, Beauharnois.	2 "	68	Joseph Hébert, Halton, P.Q.	
" 30	"	58691	La Maison L. P. Lazure, St. Remi.	2 "	64		Swift Canadian Co., Montreal
" 30	"	58592	C. H. Lamarre, St. Remi.	2 "	66	Lussier & Surprenant, St. Remi.	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Water. Separated.	Water. Incorporated.	Water. Total.	Ash	Butyro-refractometer at 40°c.	Reichert Meissl No.	Fat by Difference.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
	p.c.	p.c.	p.c.	p.c.			p. c.		
	...	10·85	10·85	3·68	42·8	...	85·47	58776	Genuine.
		14·50	14·50	3·29	42·9	.....	82·21	58777	"
		13·78	13·78	2·52	43·0	...	83·64	58778	"
	.....	12·92	12 92	2 00	43·8	.....	85·08	58779	"
	.....	12·22	12 22	1·50	43·4	...	86·28	58780	"
N. CADIEUX, TEMPORARY INSPECTOR.									
	2·50	13·55	16·05	2·93	44 2	.....	83·52	2302	Genuine.
	1·00	13·27	14·27	4 88	43·5	.....	81·85	2303	Slight deficiency in fat. Pass.
	1·00	7·50	8·50	2·19	44·0	.....	90·31	2304	Genuine.
	.....	15·68	15·68	2·05	44 0	.....	82·27	2306	"
D. J. KEARNEY, ACTING INSPECTOR.									
	.....	16·00	16 00	2·65	44·2	.....	81·35	58580	Deficiency in fat, due to maximum water content. Pass.
	.....	14·10	14·10	1·63	44·0	.....	84·27	58581	Genuine.
	.....	11·03	11·03	1·85	44·2	.....	87·12	58582	"
	.....	12·40	12·40	1·70	45·2	26·9	85·90	58583	"
	.....	11·50	11·50	2 72	45·0	25·6	85·48	58584	"
	.....	12·20	12 20	1·53	43·6	.....	86·27	58585	"
	.....	15·15	15·15	3·20	43 8	.....	81·65	58586	Slight deficiency of fat. Pass.
	.....	13·25	13·25	2·49	44·0	..	84 25	58587	Genuine.
	.....	12·80	12·80	2·18	43·0	.....	85·02	58588	"
	....	12·80	12·80	2·52	43·0	... ..	84·68	58589	"
	....	14·50	14·50	2·70	44·8	25·1	82·80	58590	"
	.....	14·87	14·87	1·99	43·4	.....	83·14	58591	"
	.....	12·26	12·26	3·11	43·4	.....	84·63	58592	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF VALLEYFIELD—	
1914.							
Jan. 30	Butter	58593	P. A. Collette, Beauharnois.	2 lbs.	66	Lussier & Suprenault, St. Rémi.	
" 30	"	58594	Mrs. C. Benoit, Beauharnois.	2 "	66	Joseph Hébert, Holton, P.Q.	
Feb. 3	"	58595	M. Moriarty, Huntingdon.	2 "	68	P. Moriarty, Huntingdon.	
" 3	"	58596	E. C. McCoy, Huntingdon, P.Q.	2 "	66		Matthews, Ltd., Montreal.
" 3	"	58597	John Hunter & Sons, Huntingdon, P.Q.	2 "	64	P. Moriarty, Huntingdon.	
" 3	"	58598	Geo. Dixon, Huntingdon, P.Q.	2 "	66		W. T. Leonard & Co., Huntingdon.
" 3	"	58599	J. Brown, Huntingdon, P.Q.	2 "	66		Matthews Ltd., Montreal.
						DISTRICT OF OTTAWA—	
1913.							
Dec. 8	Butter	59224	W. West, Almonte	3 lbs.	96	Renfrew Creamery Co., Renfrew.	Mfrs.
" 8	"	59225	H. H. Cole, Almonte	2 "	60	Mrs. Andrews, Pakenham.	"
" 9	"	59226	W. C. Edwards & Co., Rockland.	3 "	99	Maxville Creamery, Maxville.	"
" 11	"	59227	Geo. Patterson, Wakefield.	2⅝ "	57	Thos. Cafferty, St. Cecile de Mash.	"
" 11	"	59228	Alex. Maclaren, Wakefield.	3 "	90	Theree Dion, St. Cecile de Mash.	"
" 16	"	59229	R. Clark Cummings, Cummings Bridge.	3 "	99	J. Moyneur, Ltd., Ottawa.	"
" 16	"	59230	Emond Co., Eastview	2 "	56	J. Lerner, Ottawa	"
" 17	"	59231	T. W. Collins, Friel st., Ottawa.	2 "	70	The Alderney Dairy Co., Ottawa.	"
" 18	"	59232	O. Lemieux, Pont st., Hull.	2½ "	78	Moyneur, Ottawa	"
" 18	"	59233	Jos. Martel & Co., Duc st., Hull.	4⅝ "	150	J. Freedman, Ottawa.	"
" 18	"	59234	M. J. Laverdure. Albert st. Hull.	3 "	96	Ottawa Cold Stores, Ltd., Ottawa.	"
" 19	"	59235	J. H. Lever, By Ward market, Ottawa.	3 "	84	Unknown	W. A. Hodgins, Shawville.
" 19	"	59236	" "	2 "	64	"	Jas. Alexander, Ltd., St. Paul, Montreal.
" 19	"	59237	Gougeon & Fils, By Ward market, Ottawa	3 "	96	J. Freedman, Ottawa.	
" 19	"	59238	S. Diamend, By Ward market, Ottawa.	3 "	96	E. M. Lerner & Sons, Ottawa.	
" 19	"	59239	Matthews-Laing Ltd., By Ward market, Ottawa.	3 "	96	Unknown	
" 19	"	59240	" "	2 "	56	"	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report (Is not an expression of opinion).	Results of Analysis. Water. Separated.	Water. Incorporated	Water. Total	Ash.	Butyro-refractometer at 40° C.	Reichert Meissl No.	Fat by Difference.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
	p.c.	p.c.	p.c.	p.c.			p. c.		
....	.....	13·22	13·22	3·34	43·0	.....	83·44	58593	Genuine.
....	.....	13·02	13·02	2·38	44·8	23·4	84·60	58594	"
....	.....	12·45	12·45	0 90	42·5	.....	86·65	58595	"
....	.....	12·87	12·87	1·52	44·6	28·3	85 61	58596	"
... .	.....	12 50	12·50	1·36	43 6	.....	86 14	58597	"
....	.....	10·40	10·40	3 94	43·8	.....	85·66	58598	"
....	....	12·90	12·90	3 56	44·6	29·6	83 54	58599	"
J. A. RICKEY, INSPECTOR.									
.. ..	.....	10·60	10·60	2 15	45 0	26·2	87·25	59224	Genuine.
....	.....	12·40	12·40	2·87	44 6	23·1	84·73	59225	"
....	.....	12·25	12·25	2·24	43·4	.....	85 51	59226	"
....	3·50	10·52	14 02	0·96	45·8	24 8	88 52	59227	"
The Gatineau Creamery.	.....	9 55	9·55	1·84	44·8	26·4	88·61	59228	"
Gold Medal	.....	14·30	14·30	3·29	44·8	27·4	82·41	592.9	"
Beachburg Creamery. Reg. No. 1532.	.....	8·40	8·40	2·04	43·6	.....	89·56	59230	"
Crown Brand	2·63	13·20	15·83	2·82	43·0	.. ..	83 98	59231	"
... .	2·68	10·42	13·10	2·53	44 7	27·1	86·99	59232	"
. ...	.....	12·55	12·55	6·25	42 8	...	81·20	59233	Deficiency of fat. Pass.
Sweet Clover Brand...	1·00	10·10	11·10	2·11	43·8	...	87·79	59234	Genuine.
.. ..	0·50	8·48	8·98	4·50	43·5	.....	87·02	59235	"
.. ..	0·40	11·04	11·44	3·30	43·5	.....	85·66	59236	"
Capital Creamery.	.....	11·85	11·85	1·27	43·4	.....	86·88	59237	"
Rising Sun	.....	11·85	11·85	1·90	43·8	....	86·25	59238	"
Rose Brand Choice Creamery.	0·50	10·42	10·92	3·00	43·4	.....	86·58	59239	"
... .	0 25	10·09	10·25	8·00	44·6	27·2	82 00	59240	Slight deficiency fat, due to excess of salt. Pass.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1913.							
Dec. 19	Butter.	59241	B. Slattery, Sparks st., Ottawa	3 lbs.	105	Valley Creamery of Ottawa, Ottawa.	Mfrs. ....
" 19	"	59242	Valley Creamery of Ottawa, Sparks st., Ottawa.	3 " ..	90	Vendors	. .. .
" 22	"	59243	Ottawa Dairy Co., Ltd., Ottawa.	2 " ..	64	"	.....
1914.							
Jan. 17	"	59291	" "	2 " ..	70	"	....
DISTRICT OF KINGSTON—							
1913.							
Dec. 8	Butter.	61013	James Redden, Kingston	1 lb...	35	Eastern Dairy School Kingston.	....
" 8	"	61014	James Crawford, Kingston.	1 lb...	35	Eldon Creamery, Lornville.	....
" 8	"	61015	J. B. Hutcheson, Kingston.	1 lb...	33	Victoria Creamery, Lindsay.	....
" 8	"	61016	Wm Davis, Kingston..	1 lb...	35	Woodside Creamery.	....
" 8	"	61017	W. E. Hopinson Bros., Kingston.	1 lb ..	35	Royal Township Creamery.	....
" 8	" . .	61018	Geo. Gibson, Kingston..	1 lb..	32	C. McCrane.....	....
" 8	"	61019	L. W. Murphy, Kingston.	1 lb...	35	Favourite Creamery.	....
" 8	"	61020	James Kennedy, Kingston.	1 lb...	34	Eldon Creamery, Lornville.	....
" 8	"	61021	J. D. Valleau, Kingston	1 lb...	33	Brooklin Creamery..	....
" 8	"	61022	Mrs. Irwin, Kingston..	1 lb...	33	Beachburg Creamery	....
" 8	"	61023	J. R. B. Gage, Kingston	1 lb...	33	Brooklin Creamery..	....
" 8	"	61024	J. A. Lemmons, Kingston	1 lb...	32	Mrs. Brown, Odessa.	....
" 9	"	61025	W. H. Milling, Napanee	1 lb...	33	Central Smith Dairy, Peterboro.	....
" 9	" . ..	61026	G. W. Royes, Napanee	1 lb..	32	Laings Special Creamery, Brockville,	....
" 9	" .	61027	F. H. Perry, Napanee..	1 lb...	32	.....	....
" 9	"	61028	W. D. Nickle, Napanee	1 lb...	32	Laings Special Creamery, Brockville.	.....
" 9	"	61029	H. C. Hampton, Belleville.	1 lb...	32	H. A. Brann, Creamery.	....
" 9	"	61030	L. R. Artis, Belleville..	1 lb...	35	Laings Special Creamery, Brockville.	..... .
" 9	"	61031	R. Elvins, Belleville...	1 lb...	33	A. H. Campbell, Harwood.	.....
" 9	"	61032	H. E. Fairfield, Belleville.	1 lb...	33	Laings Special Creamery, Brockville.	....

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Water. Separated.	Water. Incorporated.	Water. Total.	Ash.	Butyro-refractometer at 40° C.	Reichert Meissl No.	Fat by Difference.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
	p. c.	p. c.	p. c.	p. c.			p. c.		
Ottawa Creamery		12·16	12·16	2·82	43·5		85·02	59241	Genuine.
"		11·82	11·82	2·72	43·0		85·46	59242	"
Favorite		13·50	13·50	2·23	44·1		84·27	59243	"
"		16·44	16·44	0·09	42·4		83·47	59291	Slight excess of water; but the fat content is high. Pass.
JAS. HOGAN, INSPECTOR.									
		13·44	13·44	0·09	43·2		86·47	61013	Genuine.
		11·38	11·38	2·89	43·5		85·73	61014	"
		13·07	13·07	2·74	44·0		84·19	61015	"
		11·83	11·83	2·23	43·6		85·94	61016	"
		11·35	11·35	2·17	43·0		86·48	61017	"
		11·45	11·45	2·32	43·0		86·23	61018	"
		10·08	10·08	2·09	43·4		87·83	61019	"
		10·09	10·09	3·34	43·8		86·66	61020	"
	1·50	11·50	13·00	2·69	43·2		85·81	61021	"
	0·50	12·72	13·22	2·46	44·2		84·82	61022	"
		11·40	11·40	2·58	43·0		86·02	61023	"
		11·45	11·45	3·55	44·0		85·00	61024	"
		11·06	11·06	3·20	42·6		85·74	61025	"
		13·90	13·90	1·95	43·5		84·15	61026	"
'Anchor Brand Dairy.'		11·43	11·43	2·50	43·8		86·07	61027	"
		9·50	9·50	0·80	44·3	25·4	89·70	61028	"
		9·87	9·87	2·67	43·6		87·46	61029	"
		8·19	8·19	2·30	43·0		88·51	61030	"
Finest Creamery		11·49	11·49	3·04	43·6		85·47	61031	"
		9·50	9·50	2·07	43·8		88·43	61032	"

BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents	Manufacturer.	Furnisher.
			DISTRICT OF TORONTO—				
1913.							
Dec. 20	Butter	57540	F. S. Cleaverley, 84 St. Lawrence mkt., Toronto.	2 lbs.	56		W. C. Latimer, Beaverton.
" 19	"	57572	L. Miller, 192 Parliament st., Toronto.	2 "	64		Spoffard, Almira
" 19	"	57573	L. Bell, 2244 Dundas st. west, Toronto.	2 "	65		Matthews-Laing, Ltd., Toronto.
" 19	"	57574	T. H. Whitely, 287 St. Johns Road west, Toronto.	2 "	70		Swift's Canadian Co., Ltd., West Toronto.
" 20	"	57575	R. Tomlin, St. Lawrence mkt., Toronto.	2 "	50		W. Fairburn, Orangeville.
" 20	"	57576	H. Forsythe, 81 St. Lawrence mkt., Toronto.	2 "	60		Gunn's, Ltd., Toronto.
" 22	"	57577	J. E. Harrison, 827 Lansdowne ave., Toronto.	2 "	60	Mrs. T. A. Harvey, Jack's Lake.	J. J. Fee, Toronto.
" 22	"	57578	Jas. Gourlay, 43 Wallace ave., Toronto.	2 "	68		Wm. Duckworth Toronto.
" 26	"	57579	J. H Cardy, 675 Broadview ave., Toronto.	2 "	70	Wilmot Creamery Co., Baden, Ont.	Willard & Co., Ltd., Toronto.
" 26	"	57580	The Wm. Davies Co., Ltd., 749 Broadview, ave., Toronto.	2 "	64		Wm. Davies Co., Ltd., Packing House, Toronto.
" 26	"	57581	J. Atkinson, 2706 Yonge st. north, Toronto.	2 "	66		R. Whiticker.
" 26	"	57583	J. B. Whaley, 2295 Yonge st. north, Toronto.	2 "	64	Mrs. W. Perry, Linton.	
" 30	"	57584	A. Hibben, 2444 Queen st. east, Toronto.	2 "	70		Gunn's, Ltd., Toronto.
" 30	"	57585	W. J. Snell, 2165 Queen st., east, Toronto.	2 "	70		MacLaren's Imperial Cheese Co., Ltd., Toronto.
" 31	"	57586	Brown Bros., 592 Queen st., west, Toronto.	2 "	70		Rutherford, Marshall & Co., Toronto.
" 31	"	57587	D. C. Murray, 1441 Yonge st., Toronto.	2 "	70	Mrs. Jas. McEwan, Lloydtown.	
" 31	"	57588	The Wm. Davies Co., Ltd., 1152 Yonge st., Toronto.	2 "	68		The Wm. Davies Co., Ltd., Packing House. Toronto.
1914.							
Jan. 2	"	57589	Puckel & Scillary, Oshawa.	2 "	62		Unknown.
" 2	"	57590	F. I. Armstrong, Oshawa.	2 "	60		McDowell & Morris, Oshawa.

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refractometer at 40°c.	Reichert Meissl.	Fat by Difference.		
	Separated	Incorporated.	Total.						
H. J. DAGER, INSPECTOR.									
	p. c.	p. c.	p. c.	p. c.			p. c.		
....	0·25	9·34	9·59	2·09	43·7	.....	88·57	57540	Genuine.
.....	0·75	11·12	11 87	5·54	42·6	.... .	83·34	57572	"
Favourite Creamery...	1·00	11·80	12·80	2·55	43·6	....	85·65	57573	"
Brookfield Extra Creamery.	.....	11·70	11·70	2·50	44·1	.....	85·80	57574	"
....	0·25	8·98	9·23	7·00	44·0	.....	84·02	57575	"
....	1·00	13·65	14·65	2·62	44·2	.... .	83·73	57576	"
ChoiceSeparatorButter	2·60	9·35	11·95	4·46	44·0	...	86·19	57577	"
Gold Medal Creamery.	2·80	11·85	14·65	2·88	44·2	.....	85·27	57578	"
Made from pure pasteurized cream.	2·40	14·18	16·58	4·82	42·3	...	81·00	57579	Deficiency in fat. Pass.
Buttercup Creamery.	.....	12·92	12·92	1·49	44·6	29·3	85·59	57580	Genuine.
....	0·50	11·65	12·15	2·22	40 6	33·3	86·13	57581	"
Choice Dairy.	0·25	9·62	9·87	2·45	42·8	.....	87·88	57583	"
Willowdale Creamery.	2·00	10 72	12·72	2·08	43·0	.. .	87·20	57584	"
Primrose Choice Creamery.	1·50	11·55	13·05	1·59	44·2	.....	86·86	57585	"
ChoicePastuerizedGold Medal Creamery.	....	10·58	10·58	1·39	45·5	29·1	88·03	57586	"
Choice Dairy.....	0·50	11·45	11·95	5·00	43·6	.. .	83 55	57587	"
Woodside Creamery...	0·25	10·11	10·36	1·75	44 6	30·1	88·14	57588	"
....	.....	8·38	8·38	4·25	40·6	33·1	87·37	57589	"
. . ..	0·50	15·35	15 85	3·10	43·6	.....	81·55	57590	Slight deficiency of fat. Pas .

Date of Collection.	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1913.							
Dec. 2	Butter	59801	McDougal & Evans, Owen Sound.	2 lbs.	50		Farmer
" 3	"	59802	D. J. Cunningham, Owen Sound.	3 "	56		Unknown.
" 3	"	59803	A. W. McFaul, Owen Sound.	2 "	58		Farmers.
" 4	"	59804	Shields & Co., Palmerston.	2 "	56		Joseph Kennedy
" 5	"	59805	C. T. Hicks, Guelph	2 "	68	Guelph Creamery Co., Guelph.	
" 5	"	59806	J. M. Dooley, Guelph	2 "	68	"	
" 9	"	59807	John Walker, Paris	2 "	68	Princeton Creamery, Princeton.	
" 9	"	59808	J. M. Patterson, Paris	2 "	60	J. K. Nill, Falkland.	
" 10	"	59809	A. Caulbeck, 104 Market st., Brantford.	2 "	68	Brant Creamery, Brantford.	
" 10	"	59810	Geo. Cooper, 135 Market st., Brantford.	2 "	68		Swift Canadian Co., Ltd., Toronto.
" 10	"	59811	M. B. O'Loughlin, 131 Clarence st., Brantford.	2 "	62	Wm. Doddy, Brantford.	
" 16	"	59812	A. Culbert, 188 Locke st., Hamilton.	2 "	70		Fearman, Hamilton.
" 16	"	59813	John Slattery, 137 Locke st., Hamilton.	2 "	60		P. W. Armstrong, Selkirk.
" 16	"	59814	R. J. Hewson, 312 Main st. West, Hamilton.	2 "	70	Hagersville Creamery, Hagersville.	
" 16	"	59815	W. A. Atkinson, 311 Barton st., Hamilton.	2 "	70	R. B. Moore, Galt.	
" 16	"	59816	Wm. Carrall, 595 Barton st. West, Hamilton.	2 "	60		Unknown.
" 16	"	59817	H. Stewart, 114 Sanford st., Hamilton.	2 "	70	Robert Snell, Norwich.	
" 16	"	59818	H. Taylor, 563 King st. East, Hamilton.	2 "	64		Unknown.
" 17	"	59819	E. H. Soules, 99 John st. South, Hamilton.	2 "	60		"
" 17	"	59820	D. Sullivan, 175 Yonge st., Hamilton.	2 "	70		A. Pain, Hamilton.
DISTRICT OF WINDSOR—							
Dec. 12	Butter	53602	W. J. O. Neil, Clinton	2 lbs.	54	Unknown.	
" 16	"	53608	Ginsberg Bros., London	2 "	66	Silverwoods, Ltd., London.	
" 16	"	53612	G. C. Carley, Lambeth	2 "	68	"	"
" 16	"	53614	Earle & Sons, Lambeth	2 "	60	Geo. Jaives, Tempo, P. O.	
" 9	"	54455	W. R. Butcher, St. Marys.	2 "	60	Winchelsea Creamery, (W. J. Meda)	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Water. Separated.	Water. Incorporated.	Water. Total.	Ash.	Butyro-refractometer at 40°c.	Reichert Meissl No.	Fat by Difference.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
H. J. DAGER, ACTING INSPECTOR.									
	p.c.	p.c.	p.c.	p.c.			p. c.		
.....	2·70	13·80	16·50	9·57	42·8	.....	76·63	59801	Butter fat low, due to excess of salt Adulterated.
Said it was No. 1.....	1·00	8·07	9·07	3·29	44·0	.....	88·64	59802	Genuine.
Sold as No. 1.....	0·50	9·72	10·22	1·69	43·3	.....	88·59	59803	"
.....	2·50	11·48	13·98	1·85	42·3	.....	86·67	59804	"
.....	1·00	13·23	14·23	3·72	42·6	.....	83·05	59805	"
Labelled Creamery Butter g.c.c.	0·70	10·74	11·44	3·24	42·9	.....	86·02	59806	"
Clover Brand Creamery.	.....	8·58	8·58	4·64	43·4	.....	86·78	59807	"
.....	.....	13·70	13·70	3·32	42·6	.....	82·98	59808	"
Brant Creamery, Reg. No. 1533. Guaranteed absolutely pure.	.....	10·42	10·42	1·33	42·6	.....	88·25	59809	"
Brookfield Extra Creamery.	.....	12·48	12·48	3·54	44·7	27·6	83·98	59810	"
.....	.....	11·08	11·08	2·42	41·5	.....	86·50	59811	"
Meado Brook Creamery.	0·50	12·16	12·66	2·29	43·6	.....	85·55	59812	"
.....	.....	12·92	12·92	2·13	43·0	.....	84·95	59813	"
Clover Leaf Brand....	2·00	11·50	13·50	4·10	43·2	.....	84·40	59814	"
Maple Leaf Brand. Finest Creamery.	1·20	11·70	12·90	3·04	43·0	.....	85·26	59815	"
FinestCreamery, Walkerton Creamery.	.....	11·83	11·83	1·35	43·2	.....	86·82	59816	"
Norwich Gore Creamery.	1·00	10·23	11·23	2·32	43·4	.....	87·45	59817	"
.....	0·70	10·55	11·25	2·22	43·0	.....	87·23	59818	"
.....	.....	8·74	8·74	5·34	45·0	27·0	85·92	59819	"
Choice Creamery, Jackson's Creamery.	1·50	11·95	13·45	2·93	44·2	.....	85·12	59820	"
JOHN TALBOT, INSPECTOR.									
.....	1·00	10·57	11·57	2·21	43·0	.....	87·22	53602	Genuine.
.....	.....	12·50	12·50	2·19	44·6	26·7	85·31	53608	"
.....	.....	11·80	11·80	1·89	44·0	.....	86·31	53612	"
.....	.....	10·66	10·66	2·92	42·2	.....	86·52	53614	"
Star Brand.....	1·00	13·10	14·10	1·59	44·4	27·9	85·31	54455	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1913.							
Dec. 9	Butter	54457	Geo. Smith, St. Marys.	2 lbs.	50	Unknown	
" 9	"	54464	J. M. Adam, St. Marys	2 "	54	Mrs. Tunnie	
" 10	"	54466	Oman & Mallion, Stratford.	2 "	56	Unknown	
" 10	"	54470	Searth Grocery Co., Stratford.	2 "	56	"	
" 10	"	54476	M. O'Brien, Stratford.	2 "	66	Dempsey & Holmes	
" 11	"	54481	Chas. S. Andrews, Seaforth.	2 "	56	Unknown	
" 11	"	54482	Sproat & Finnegan, Seaforth.	2 "	50	"	
" 11	"	54487	Thos. Daly, Seaforth.	3 "	56	A. A. Cuthill	
" 11	"	54490	M. Williams, Seaforth	2 "	50	Mrs. J. Morrison	
" 12	"	54495	Geo. McLennan & Co., Clinton.	2 "	52	Unknown	
" 12	"	54497	J. P. Shepperd & Co., Clinton.	2 "	50	"	
DISTRICT OF MANITOBA—							
1914.							
Jan. 7	Butter	53240	D. Christie, Main st., west, Winnipeg.	2 lbs.	75		Dom. Produce Co., Winnipeg.
" 7	"	53241	" "	2 "	70		Lang Bros.
" 7	"	53242	B. Clay, 181 Bannerman, Winnipeg.	2 "	76	Carson Hygienic Dairy Co., Winnipeg.	Mfrs.
" 7	"	53243	Gibson Gage Co., Main st., west, Winnipeg.	2 "	66		
7	"	53244	W. & D. Mayrs, Main st., west, Winnipeg.	2 "	76	Swift Canadian Co., Winnipeg.	Mfrs.
7	"	53245	" "	2 "	76	Carson Hygienic Dairy Co., Winnipeg.	"
" 8	"	53246	Bond & Co., St. James.	2 "	76	Crescent Creamery Co., Winnipeg.	Mfrs.
" 8	"	53247	" "	2 "	70	" "	"
" 8	"	53248	" "	2 "	76		Matthews-Laing Ltd., Winnipeg.
" 8	"	53249	C. Killeen, St. James.	2 "	75		Gordon Ironsides Fares Co., Winnipeg.
" 8	"	53250	W. H. Tucker, Notre Dame, west, St. James.	2 "	70	Crescent Creamery Co., Winnipeg.	Mfrs.

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Water. Separated.	Water. Incorporated.	Water. Total.	Ash.	Butyro-refractometer at 40°C.	Reichert Meissl No.	Fat by Difference.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
	p.c.	p.c.	p.c.	p.c.			p.c.		
....	3·50	16·00	19·50	1·17	44·6	24·1	82·83	54457	Genuine.
....	...	11·09	11·09	1·74	43·0	....	87·17	54464	"
....	2·50	10·35	12·85	1·84	41·2	29·6	87·81	54466	"
....	4·20	11·80	16·00	1·78	43·2	.	83·42	54470	"
....	. ..	12·15	12·15	1·55	43·0	... .	86·30	54476	"
....		8·33	8·33	1·81	45·2	21·2	89·86	54481	"
.. . .	3·00	8·82	11·82	3·40	44·8	24·9	87·78	54482	"
.....	1·00	10·08	11·08	1·86	44·8	28·5	88·06	54487	"
....	1·00	13·90	14·90	2·14	43·0	.....	83·96	54490	"
....	2·00	9·73	11·73	1·74	43·7	...	89·53	54495	"
....	2·00	10·54	12·54	2·94	42·3	.....	86·52	54497	"

A. C. LARIVIÈRE, INSPECTOR.

Eastern Townships Devon-Dale Creamery.		12·90	12·90	2·00	44·6	29·2	85·10	53240	Genuine.
Perfection Creamery		12·50	12·50	1·57	44·0	.....	85·93	53241	"
... .		11·82	11·82	2·70	43·6	.....	85·28	53242	"
Made expressly for Gibson Gage Co.		10·35	10·35	1·45	43·8	.....	88·20	53243	"
Brookfield Brand.....	.....	9·65	9·65	1·14	43·5	.....	89·21	53244	"
....	.....	14·00	14·00	2·49	43·0	... ..	83·51	53245	"
Crescent Brand.....	. ....	15·80	15·80	2·35	43·8	... ..	81·95	53246	Slight deficiency in fat. Pass.
Aylesbury Brand	...	20·28	20·28	3·04	43·6	... ..	76·68	53247	Excess of water and deficiency of fat. Adulterated.
Packed by furnishers, "Rose" Brand.	.....	12·40	12·40	2·20	44·5	28·7	85·40	53248	Genuine.
"Cloverdale" Brand.	.....	14·30	14·30	3·12	43·8	.....	82·58	53249	"
"Aylesbury" Brand.	....	16·48	16·48	2·78	43·5	.....	80·84	53250	Excess of water and deficiency of fat. Adulterated.

BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF MANITOBA—	
1914.							
Jan. 8	Butter	53251	W. H. Tucker, Notre-Dame west, St. James	2 lbs.	76		Gordon Ironsides Fares Co., Winnipeg.
" 12	"	53252	Western Cash Grocery, Portage avenue, St. James.	2 "	70		Simpson Produce Co.
" 12	"	53253	" "	2 "	72	Carson Hygienic Dairy Co., Winnipeg.	Manufacturers
" 12	"	53254	" "	2 "	68	" "	"
" 12	"	53255	G. J. Caswell, Logan avenue, St. James.	2 "	80	Laurentia Milk Co. of Manitoba, Ltd., Nepawa, Man.	
" 12	"	53256	" "	2 "	64		Gallagher Holman, Lafrance, Winnipeg.
" 13	"	53257	St. Boniface Creamery Co., St. Boniface, Man.	2 "	Nil	Manufacturers	
" 13	"	53258	Berlin & Co., St. Boniface, Man.	2 "	80	Crescent Creamery Co., Winnipeg.	Manufacturers
" 13	"	53259	" "	2 "	60	Carson Hygienic Dairy Co., Winnipeg.	"
						DISTRICT OF ALBERTA—	
1913.							
Dec. 1	Butter	51813	Hallier & Aldridge, Edmonton.	2 lbs.	80	Edmonton Dairy Co., Edmonton.	
" 1	"	51814	I. H. Morris & Co., Edmonton.	2 "	75	Golden Meadow Creamery, Edmonton.	
" 2	"	51815	The Acme Co., Edmonton.	2 "	78	Swift Canadian, Edmonton.	
" 3	"	51816	Hudson Bay Co., Edmonton.	2 "	80	Edmonton City Dairy, Edmonton.	
" 4	"	51817	Montgomery & West, Wetaskiwin.	2 "	70	Mrs. H. T. Rix, Wetaskiwin.	
" 4	"	51818	Aboussafy & Murray, Wetaskiwin.	2 "	90	M. Badry, Wetaskiwin.	
" 5	"	51819	F. E. McLeod, Lacombe.	2 "	60	C. W. Gaitskell, Lacombe.	
" 11	"	51820	S. G. Freeze, Calgary	2 "	80	Cheltenham Dairy Co., New Zealand.	
" 11	"	51821	Hudson Bay Co., Calgary.	2 "	50		P. Burns & Co., Calgary.
" 12	"	51822	" "	2 "	75	P. Burns & Co., Calgary.	
" 12	"	51823	Pryce-Jones (Canada) Ltd., Calgary.	2 "	80	" "	
12	"	51824	" "	2 "	80	Swift Canadian, Calgary.	

BUTTER.

Results of Analysis.

Inspector's Report (Is not an expression of opinion).	Water. Separated.	Water. Imported.	Water. Total.	Ash.	Butyro-refractometer at 40°c.	Reichert Meissl. No.	Fat by Difference.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
	p.c.	p.c.	p.c.	p.c.			p. c.		
"Cloverdale" Brand		12·70	12·70	1·91	43·4		85·39	53251	Genuine.
"Brookside" "		11·51	11·51	1·64	43·8		86·85	53252	"
"Carson's" "		13·61	13·61	3·26	43·6		83·13	53253	"
"Globe Valley" "		13·32	13·32	2·95	44·0		83·73	53254	"
"Laurentia" "		13·86	13·86	3·38	43·6		82·76	53255	"
Fresh made Dairy Butter		9·95	9·95	0·66	43·0		89·39	53256	"
		13·15	13·15	4·28	44·2		82·57	53257	"
"Crescent" Braud.		15·85	15·85	2·00	43·4		82·15	53258	Slight deficiency in fat. Pass.
		12·43	12·43	2·57	43·8		85·00	53259	Genuine.

A. W. R. MARKLEY, INSPECTOR.

	12·92	12·92	2·00	42·6		85·08	51813	Genuine.
0·75	12·0	12·77	3·06	43·2		84·92	51814	"
	12·62	12·62	1·84	43·5		85·54	51815	"
	12·07	12·07	2·10	42·8		85·82	51816	"
	11·14	11·14	1·84	44·0		87·02	51817	"
	9·82	9·82	2·00	43·8		88·18	51818	"
	8·60	8·60	2·31	43·9		88·10	51819	"
	14·60	14·60	1·02	43·7		81·38	51820	"
	16·94	16·94	1·59	42·8		81·47	51821	Excess of water and deficiency of fat. Adulterated.*
	13·05	13·05	2·44	44·2		84·51	51822	Genuine.
	12·45	12·45	1·59	43·0		85·96	51823	"
	13·95	13·95	2·38	43·3		83·67	51824	"

* Said to have been sold as cooking butter, and not of first quality.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
						DISTRICT OF ALBERTA—	
1913.							
Dec. 12	Butter	51825	John Irwin & Co., Calgary.	2 lbs.	80	P. Pallesen, Calgary	
" 12	"	51826	I. A. Nolan, Calgary	2 "	80	" "	
" 13	"	51827	P. Burns & Co., Calgary	2 "	80	Mfrs	
" 13	"	51828	" "	2 "	80	"	
" 13	"	51829	" "	2 "	70	"	
" 13	"	51830	" "	2 "	70	"	
" 13	"	51831	" "	2 "	70	"	
" 13	"	51832	Plunkett & Savage, Calgary.	2 "	65	Provincial Creamery, Calgary.	
						DISTRICT OF ROCKY MOUNTAINS—	
Dec. 2	Butter	49997	R. G. Ritchie, Cascade, B.C.	2 lbs.	75	Swift Canadian Co., Edmonton.	
" 2	"	49998	" "	2 "	80		W. H. Malkins, & Co., Vancouver.
" 2	"	49999	" "	2 "	75	Alberta Prov. Govt. Creameries, Calgary	
" 4	"	50006	N. L. McInnes & Co., Grand-Forks, B.C.	2 "	80	A. H. Campbell, Harwood, Ont.	
" 4	"	50007	" "	2 "	90		A. Polade & Co., Vancouver.
" 4	"	50013	McKim & LeRoy, Grand-Forks, B.C.	2 "	80		P. Burns & Co., Nelson, B.C.
" 15	"	50019	Trail Grocery Co., Trail, B.C.	2 "	80	A. H. Campbell, Harwood, Ont.	
" 15	"	50024	T. Lauriente & Son, Trail, B.C.	2 "	90	Burlew Creamery Co. Burlew, Wash.	
" 15	"	50025	" "	2	80	Harris Dairy Products Co., Camrose, Alta.	
" 17	"	50031	Agnew & Co., Rossland, C.B.	2 "	75	Swift Canadian Co., Edmonton.	
" 17	"	50043	T. P. Rogers, Rossland, B.C.	2 "	90	Hazelwood Co., Spokane.	
1914.							
Jan. 3	"	50044	P. Burns & Co., Nelson, B.C.	2 "	80		P. Burns & Co., Vancouver.
" 3	"	50045	" "	2 "	80		"
" 3	"	50046	" "	2 "	70	P. Burns & Co., Calgary.	
" 7	"	50056	R. B. Bell, Salmo, B.C.	2 "	90		P. Burns & Co., Nelson.
7	"	50057	" "	2 "	80	The O. K. Creamery, Morningside, Alta.	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remark and Opinion of the Chief of Analyst.
	Water.			Ash.	Butyro-refractometer at 40°C.	Reichert Meissl No.	Fat by Difference.		
	Separated.	Incorporated.	Total.						
Concluded									
	p.c.	p.c.	p.c.	p.c.			p. c.		
	....	12·78	12 78	3·30	43·5	....	83·92	51825	Genuine.
	.....	12 85	12·85	2 18	44 2	....	84·67	51826	"
	. ..	11·21	11·21	3·48	43·8	....	85·31	51827	"
	....	11·94	11·94	4·00	45·0	28·3	84·06	51828	"
	...	11·70	11·70	1·09	43·8	.....	87·21	51829	"
	.....	14·90	14·90	1·66	43·7	.....	83·44	51830	"
	... .	9·95	9·95	2·82	43·5	.....	87·23	51831	"
	.....	13·50	13·50	2 61	43 6	....	83 89	51832	"
THOS. PARKER, INSPECTOR.									
Brookfield	.. .	12·32	12·32	2·50	43·6	....	85 18	49997	Genuine.
New Zealand	.. ..	13·92	13·92	1·62	44·1	..	84·46	49998	"
	.....	11·39	11·39	2·11	43 5	.....	86·50	49999	"
	.....	12·38	12·38	2·81	44 6	30 2	84 81	50006	"
New Zealand	.. ..	15·40	15·40	2 54	43·6	.	82·06	50007	Slight deficiency of fat. Pass.
Empress	....	13·48	13·48	2·90	44·2	...	83·62	50013	Genuine.
	0·20	10·90	11·10	2·42	44·7	29·6	86·68	50019	"
	.....	13·05	13·05	0·92	42·4	....	86·03	50024	"
Golden Meadow	.. .	10·97	10·97	1·86	43·4	...	87·17	50025	"
Sweet Clover	.....	10·59	10·59	1·87	43·2	...	87·54	50031	"
Hazelwood	.....	14·00	14·00	1·56	43·8	...	84·44	50043	"
Fancy New Zealand	.....	15·20	15·20	1·95	42·8	.....	82·85	50044	"
Southern Cross, New Zealand.	.....	14·65	14·65	1·85	43·2	.....	83·50	50045	"
Alberta Dairy	....	15·42	15 42	2·52	43·5	....	82·06	50046	Slight deficiency in fat. Pass.
Fancy, N.Z	.. ...	13 00	13·00	2·15	43·4	. ...	84·85	50056	Genuine.
	0·50	11·65	12·15	1·34	43·2	.....	87·01	50057	"

BULLETIN No. 281—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF ROCKY MOUNTAINS—							
1914.							
Jan. 23	Butter	50065	S. A. Speers, Creston, B.C.	2 lbs.	80		A.P.Slade & Co., Vancouver.
" 23	"	50068	Creston Mercantile Co., Creston, B.C.	2 "	80		"
" 23	"	50069	" "	2 "	70	A. N. Couling, Creston, B.C.	
" 23	"	50070	" "	2 "	70	Jas. Haseruft, Creston, B.C.	
DISTRICT OF VICTORIA—							
1913.							
Dec. 9	Butter	57697	Windsor Grocery Co., 817 Government st., Victoria, B.C.	2 lbs.	75		S. Leiser & Co., Ltd., Victoria, B.C.
" 9	"	57698	" "	2 "	110	Cowichan Creamery Assn., Duncan, B.C.	
" 9	"	57705	Copas & Young, 633 Fort st., Victoria, B.C.	2 "	70	F.R. Stewart, Victoria, B.C.	
" 9	"	57706	" "	2 "	90	Norwestern Creamery, Victoria, B.C.	
" 11	"	57714	The West End Grocery Co., Ltd., 1002 Govt. st., Victoria, B.C.	2 "	90		
" 11	"	57715	" "	2 "	100	Salt Spring Island Creamery, Ganges, B.C.	
" 11	"	57716	" "	2 "	80	T. Simmonds, Lost Lake, Victoria, B.C.	John Vaio & Sons, Victoria, B.C.
" 11	"	57721	Acton Bros., 1317 Douglas st., Victoria, B.C.	2 "	70		P. Burns & Co., Ltd., Victoria, B.C.
" 11	"	57722	" "	2 "	75		Swift Canadian Co., Ltd., Victoria, B.C.
" 12	"	57729	Dixi H. Ross & Co., 1316 Broad st., Victoria, B.C.	2 "	90	The Comox Creamery Assn., Ltd., Courtenay, B.C.	
" 12	"	57730	" "	2 "	70		B. Wilson & Co., Ltd., Victoria, B.C.
" 12	"	57737	James Adam, 1023 Cook st., Victoria, B.C.	2 "	70		F. R. Stewart, Victoria, B.C.
" 16	"	57744	H.O Kirkham, 714 Fort st., Victoria B.C.	2 "	80	B. Wilson & Co., Ltd., Victoria, B.C.	
" 16	"	57745	" "	2 "	70	A. P. Slade & Co., Victoria, B.C.	
" 17	"	57752	Henry W. Driver, 856 Yates st,. Victoria, B.C.	2 "	70	P. Burns & Co., Ltd., Victoria, B.C.	
" 18	"	57756	Erskine & Co., 861 Johnston st., Victoria, B.C.	2 "	70	A. P. Slade & Co., Victoria, B.C.	
" 18	"	57759	Fenerty Bros., Oak Bay Junction, Victoria, B.C.	2 "	70	"	

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion)	Results of Analysis. Water. Separated.	Water. Incorporated.	Water. Total.	Ash.	Butyro-refractometer at 40° C.	Reichert Meissl No.	Fat by Difference.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
	p.c.	p.c.	p.c.	p.c.			p. c.		
Thames Valley, N.Z.	.....	13·40	13·40	0·86	43·2	....	85·74	50065	Genuine.
Pakeha, N.Z	.....	14·62	14·62	3·24	42·8	.....	82·14	50068	Slight deficiency in fat. Pass.
....	.....	14·65	14·65	1·14	42·8	....	84·21	50069	Genuine.
....	.....	10·40	10·40	0·79	42·8	.... .	88·81	50070	"

D. O'SULLIVAN, INSPECTOR.

New Zealand Creamery	.....	14·60	14·60	0·97	43·2	.....	84·43	57697	Genuine.
Cowichan Creamery...	....	11·65	11·65	1·24	43·0	.....	87·11	57698	"
Independent Creamery	. ..	13·65	13·65	1·95	43·8	.....	84·40	57705	"
Northwestern Creamery.	.....	11·56	11·56	1·66	42·5	.. ..	86·78	57706	"
White Clover Creamery.	.....	9·85	9·85	2·03	43·8	.....	88·12	57714	"
Salt Spring Island Creamery.	.....	10·92	10·92	2·07	42·6	.....	87·01	57715	"
Ranch Butter...	5·00	9·35	14·35	1·15	43·0	.....	89·50	51716	"
Linden Grove.....	....	12·73	12·73	1·49	44·5	27·5	85·78	57721	"
Fancy New Zealand Creamery.	.....	13·90	13·90	1·26	43·5	.....	84·81	57722	"
. ...	.. .	9·46	9·46	1·89	43·8	.....	88·74	57729	"
Auburn Creamery	.....	12·75	12·75	1·53	42·7	. ..	85·72	57730	"
Eastern Townships. ..	.....	15·90	15·90	1·68	45·4	28·8	82·42	57737	"
B.C. Brand Special Creamery.	.....	14·20	14·20	0·10	43·4	.....	85·70	57744	"
Finest Quality, Clover Valley Creamery.	.....	15·05	15·05	3·32	43·2	.....	81·63	57745	Slight deficiency of fat. Pass.
Eureka Brand Creamery.	1·00	11·80	12·80	3·38	44·2	....	84·82	57752	Genuine.
Pure Best Victoria Creamery.	.....	14·50	14·50	3·28	43·6	.....	82·22	57756	"
Mayflower Creamery..	.....	14·08	14·08	3·14	44·2	.. ...	82·78	57759	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF VICTORIA—				
1913.							
Dec. 31	Butter..	57767	P. Burns & Co., Ltd., 902 Government st., Victoria, B.C.	2 lbs..	70	P. Burns & Co., Ltd., Vancouver, B.C.	.....
" 31	"	57768	" " ..	2 " ..	75	....	P. Burns & Co., Ltd., Vancouver, B.C.
" 31	"	57769	L. C. Adams Co., Ltd., Douglas and Johnston sts., Victoria, B.C.	2 " ..	60	....	S. Leiser & Co., Ltd., Victoria, B.C.

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.			Ash.	Butyro-refractometer at 40°c.	Reichert Meissl.	Fat by Difference.		
	Separated	Incorporated.	Total.						
Concluded.									
	p. c.	p. c.	p. c.	p. c.			p. c.		
Burns Carnation Creamery.	.....	12·45	12·45	2·00	44·2	.....	85·55	57767	Genuine.
New Zealand Creamery.	.....	14·40	14·40	1·73	43·0	.....	83·87	57768	"
Choice Fresh Dairy. ..	0·50	9·20	9 70	1·97	43·0	.....	88·83	57769	"

APPENDIX.

BULLETIN No. 281—BUTTER (SPECIAL COLLECTION.)

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Water.	Butyro-refractometer at 40° c	Reichert Meissl No.	No. of Sample.
DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.												
1913.												
Mar. 11	Butter	37001	Ulric Vachon, St. Grégoire, Montmorency.	1 lb.	30	Unknown	J. B. Renaud & Cie.		11·2	44·0	29·7	37001
" 12	"	37002	U. M. Cote, 23 Chemin St. Foie.	1 "	34	Stanislas Gagnon, Isle Orleans.	Manufacturer.		11·0	44·0	29·0	37002
" 12	"	37003	E. Tessier, 121 rue Scott, Quebec.	1 "	32	Unknown	Emond & Coté.		8·6	44·0	.....	37003
" 12	"	37004	Mulcaire Bros., 21 rue St. Michel, Quebec.	1 "	34	"	J. B. Renaud & Cie.		11·8	43·0	...	37004
" 12	"	37005	Charles Martel, 49 rue Artillery, Quebec.	1 "	27	"	Harris Abattoir, Quebec.		7·5	43·0	....	37005
" 12	"	37006	O. Lamontagne, 372 rue St. Jean, Quebec.	1 "	24	"	Dom. Fish & Fruit, Quebec.		11·0	44·0	.	37006
" 12	"	37007	Jules Rochet, 7 rue Deligny, Quebec.	1 "	35	"	Emond & Coté		9·2	43·5	.	37007
" 13	"	37008	G. Donalson, 243 rue St. Valier, Quebec.	1 "	28	"	Harris Abattoir, Quebec.		12·6	41·0	...	37008
" 13	"	37009	A. Pichette, 176 rue Dorchester, Quebec.	1 "	33	"	J. B. Renaud & Cie.		7·0	42·5	.....	37009
" 13	"	37010	Cantin, Frère, 271 rue St. Joseph, Québec.	1 "	34	"	Eugène Fortin, St. Jean Port Joli.		9·0	42·0	...	37010
" 13	"	37011	La Cie Paquet, Ltée, Quebec.	1 "	27	"	Emond & Coté		10·0	43·0	..	37011
" 13	"	37012	Verret & Lepine, 58 rue de la Couronne, Quebec	1 "	28	"	"		11·6	43·0	...	37012
" 14	"	37013	Jos. Gagnon, 155 rue de la Couronne, Quebec.	1 "	34	"	J. B. Renaud & Cie.		8·9	44·0	30·8	37013
" 14	"	37014	Quebec Preserving Co., 35 rue Smith, Quebec.	1 "	28	"	Emond & Coté		13·0	43·5	.....	37014

"	14	"		37015	Elzear Turcotte, 74 rue Desfossés, Quebec.	1	"		29	"	J. B. Renaud & Cie.		10·0	43·5			37015
"	14	"		37016	Cash Market, 46½ rue St. Joseph, Quebec.	1	"		33	E. Pepin, St. Basile	Manufacturer.		11·0	42·5			37016
"	14	"		37017	O. Lacroix, 19 rue St. Joseph, Quebec.	1	"		35	"	"		8·9	43·0			37017
"	17	"		37018	L. F. Martel, 64 rue du Pont, Quebec.	1	"		35	Unknown	J. B. Renaud & Cie.		9·8	41·0	28·6		37018
"	17	"		37019	O. Gauvin, 149 rue St. Paul, Quebec.	1	"		32	Hardy & Frère, St. Basile.	Manufacturers		8·5	41·0	24·9		37019
"	17	"		37020	J. B. Renaud & Cie, Quebec.	1	"		30	Antoine Genvis, St. Raymond.	Manufacturer		8·6	44·0	29·7		37020
"	17	"		37021	L. Mercier, 113 rue St. Paul, Quebec.	1	"		30	Hardy & Frère, St. Basile.	Manufacturers		10·0	41·0			37021
"	17	"		37022	Emond & Coté, 33 Marché Finlay, Quebec.	1	"		21	Kamouraska Dairy	"		7·0	43·5			37022
April	10	"		37035	Boucher of Dom. Fruit & Fish Co., Quebec.	1	"				E. G. Tobin, 206 rue Bayard, Quebec.		9·7	42·0	*30·72		37035
"	10	"		37198	A. Dore, Sillery, Quebec.	1	"		35	Unknown	Emond & Coté		9·0	43·0			37198
"	11	"		37199	A. Parent, Beauport	1	"		30	"	J. B. Renaud & Cie.		8·7	42·0			37199
"	11	"		37200	Narcisse Fortier, Sault Montmorency.	1	"		28	"	N. Rioux & Cie		7·5	42·0			37200

* Salt 1·84.

APPENDIX Y.

BULLETIN No, 282—CATTLE MEDICINES.

OTTAWA, March 13, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister Inland Revenue.

SIR,—I have the honour to present a report dealing with 120 samples which may be classed as Cattle Medicines, although many of them possess very questionable value as such. A considerable number of these articles have come into the hands of our Inspectors as Stock Feeds; and I called your attention in August, 1912 (See Bulletin 241) to the fact that of 138 samples purchased as Stock Feeds in that year, 41 samples were found to belong more properly to the class of substances dealt with in this report.

The term Feeding Stuff is defined in the Act of 8-9 Edward VII as "Any Article offered for sale for the feeding of domestic animals, and feeds claimed to possess medicinal as well as nutritive properties, etc." It would appear that articles claiming to be Feeds must primarily possess nutritive properties, although the fact that they have medicinal value as well as nutritive value may not prevent their classification as Feeds.

It must be confessed that some degree of ambiguity attaches to the definition given in the Act. In many, perhaps in most of the samples herein reported, such nutritive value as may be possessed by the article, is due to components like linseed meal, bran, screenings, etc., employed rather as a diluent than as an essential part of the mixture. If purchased for the sake of its content in nutritive matter the price is out of all proportion to the value of the article; while if fed to stock for nutritive purposes only or chiefly, the drugs present would prove harmful, or even fatal, in the large doses which such usage would necessitate.

It is very desirable so to define Cattle Feeds and Cattle Medicines that the two classes shall not overlap; and I would suggest amendment of Section 2 (*b*) of the Feeding Stuffs Act, by omission of the phrase "and feeds claimed to posses medicinal as well as nutritive properties." When an article claims to possess medicinal properties it becomes a drug, or medicine, and ceases to be a food in the usual sense of that term.

No systematic inspection of this class of articles has been made since 1906. In that year a report upon 35 samples was published as Bulletin No. 117. I am unable to offer any comments upon the subject more to the purpose than those made by my predecessor in office in his letter of submission to the bulletin named. Speaking of the 35 samples then reported, Mr. Macfarlane says:—"It will be seen that only 5 out of the 35 samples are cattle medicines intended for use in cases of specified disease, while the other thirty are supposed to be applicable to all the ills that cattle flesh is heir to. This supposition is sustained by the claims actually made on behalf of about two-thirds of these samples on their labels or wrappers, and noted in the column headed 'Inspectors' report.' Others were sold in bulk and without any claim having been made. Some of the claims recorded would really be comical as

regards the universal applicability of the medicines if it were not too serious a matter for the poor animals to whom they are to be administered.

The condition powders consist largely of linseed meal, or bran in which are distributed more or less of other substances which are supposed to have purgative, diuretic, haematonic or tonic effects. These powders are in fact the proprietary or patent medicines supposed to be good for farm animals. They vary very much as regards composition. Some condition powders contain chlorides and nitrates. In a fourth only the sulphates are present in considerable quantity. In some free sulphur appears to be the characteristic constituent, and, in others, antimony. It does not seem fair to the farmers that remedies differing so much in their ingredients should be sold under a common name, nor can it be advantageous to his animals to have medicines administered without much regard to the nature of the disease. The "regulators" contain, as a rule, iron salts, but otherwise are just as diverse in composition as the condition powders. Among the specific remedies the worm powders exhibit similar diversity in composition, and do not seem to contain the drugs usually prescribed by veterinarians as vermicides.

That there are remedies for specific diseases, used in veterinary practice, which are sold as such is no doubt the case, but as regards the universal cattle medicine or "cure all," it is very doubtful as to whether the farmer obtains value for his money. How to regulate the traffic in these it is difficult to say."

These remarks apply in a general way to the samples herein reported. Without going so far as to say that proprietary remedies claiming to possess curative properties of a vague and indefinite nature, and for this reason to be almost universally applicable, are without any value to the farmer, it is safe to say that these panaceas exhibit the same objectionable features that are found in the majority of patent remedies offered for human use.

They are for the most part composed of very cheap materials which their claim to be patent medicines enables to be sold at very high prices. A little thought will suffice to convince any one that truly potent and effective drugs cannot be present in an article to be used by an unskilled person, or fed at haphazard to an animal. Such drugs can only be employed with safety under the guidance of a properly qualified veterinarian.

The most valuable of these articles owe such value as they possess to their content in spices and similar material, intended to provoke appetite; and would be more correctly offered as Condiments than as Medicines.

It is to be noted that many of these articles contain "Screenings" as a filler. In some of these we have noted weed seeds, as was to be expected. Whether or not such seeds are vital, and therefore constitute adulteration under the Seed Control Act, has not been ascertained; but it is probable that many of them are capable of sprouting and growth. This point will be more particularly investigated when Cattle Medicines are next inspected.

This report will enable farmers to judge the nature of the articles with which it deals; and I beg to recommend its publication as Bulletin No. 282.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF NOVA SCOTIA	
1912.							
Feb. 9	Cattle Medicine.	47051	Wentzells, Ltd., Halifax, N.S	1 pkge	50	International Stock Food Co., Toronto.	Manufacturers.
" 21	"	47052	Halifax Seed Co., Halifax, N.S.	1 "	50	Pratt Food Co., Toronto.	"
" 21	"	47053	"	1 "	50	W. A. Jenkins Co., London, Ont.	"
1913.							
Mar. 6	"	46901	Nat. Drug Co., Halifax, N.S.	1 bot.	30	Danial's, Boston, Mass.	"
" 7	"	46902	Kinleys, Ltd., Halifax, N.S.	1 pkge	25	International Stock Food Co., Toronto.	"
" 7	"	46903	Halifax Seed Co., Halifax, N.S.	1 "	25	Pratt Food Co., Toronto.	"
" 7	"	46904	"	1 lb	10	Blatchford Co., Waukegan, Ill.	"
" 7	"	46905	J. R. Rawley Estate, Halifax, N.S.	1 bot.	50	Tuttle Elexir Co., Boston, Mass.	N. D. & Co. Halifax, N.S
						DISTRICT OF PRINCE EDWARD ISLAND	
1912.							
Feb. 21	Cattle Medicine.	46188	Mathers & McLean, Ltd., Ch. Town, P.E.I.	4 lbs.	50	The Beaver Mfg. Co., Galt, Ont.	
1913.							
Feb. 28	"	46399	J. G. Jamieson, Ch. Town, P.E.I.	1 pkge	25	Vendor.	
" 28	"	46400	Geo. E. Hughes, Ch. Town, P.E.I.	1 "	25	"	
" 28	"	46401	"	1 "	25	Fraser, Thornton & Co., Cookshire, P.Q.	
" 28	"	46402	"	1 "	50	The Naisbett Co., Toronto.	
Mar. 3	"	46403	Reddin Bros., Ch.Town, P.E.I.	1 "	25	Vendors	
						DISTRICT OF NEW BRUNSWICK	
Feb. 28	Cattle Medicine.	50575	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	1 pkge	25	Frasier, Thornton Co., Ltd., Cookshire, P.Q.	
Mar. 6	"	50576	The Canadian Drug Co., Ltd., St. John, N.B.	1 "	25	Dr. S. A. Tuttle Co., Boston, Mass., and Montreal.	
April 16	"	50577	The Baird Co., Ltd., Woodstock, N.B.	1 box	15	Vendors	
" 23	"	50578	B. J. Sharp, Sussex, N.B.	1 pkge	25	Nyall, New York, U.S.A.	
" 24	"	50579	The Leger Drug Co., Ltd., Moncton, N.B.	1 "	35	The Acadia DrugCo., Moncton, N.B.	

SESSIONAL PAPER No. 14

CATTLE MEDICINES.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis. Ash.	Common salt.	Sulphuric Acid in Sulphates.	Green Copperas.	Nitre.	Antimony.	Crude Protein.	Water Extract.	Other ingredients identified.	No. of Sample.
R. J. WAUGH, INSPECTOR.										
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
.....	18·3	14·8	.....	.....	.....	.. ...	6·3	.....	Capsicum, charcoal, gentian, grain products. Weed seeds.	47051
.....	22·2	15·1	0·3	Present.	..	.....	14·3	.....	Gentian, Ginger, Screenings.	47052
....	11·0	. .	6·2	"	.....	Present.	..	.....	Fenugreek. Aniseed.	47053
Distemper cure.....	*	....		....	.	....	.....	.....	... ...	46901
... .	16·7	13·6	0·7	Present.	.	.....	8·5	.....	Capsicum, charcoal, gentian, grain products. Weed seeds.	46902
....	25·0	16·5	....	.. .	.	.. . .	12·4	.....	Gentian, Ginger, Screenings.	46903
Labelled. Old English Tonic.	8·9	2·0	1·67	Present.	....	.. ...	20·6	. ...	Linseed.	46904
Labelled. Good for Colic.	†	... .	.....	.....	.....	.....	.....	. . .		46905
WM. A. WEEKS, INSPECTOR.										
Herbageum	15·85	10·3	.....	.... .	....	.....	20·1	.....	Charcoal, Bran, Gentian, Linseed.	46188
Condition Powder...	10·9	.....	0·5	Present.	Present.	.....	....	. ...	Gentian, Linseed, Sulphur.	46399
" ..	‡	... ..	...	.....	.....	.....	.....	. . .		46400
" ..	16·9	.....	...	.....	.....	.....	.....	.....	Aniseed, Capsicum, Carbonate, Gentian, Sulphur, Middlings.	46401
" ..	7·0	0·7	.. ..	.... .	.....	..	.....	....	Fenugreek, Linseed.	46402
" ..	22·8	5·5	4·7	Presens.	Present.	Present.	...	... ..	Fenugreek, Linseed, Liquorice Rosin.	46403
JNO. C. FERGUSON, INSPECTOR.										
Woodbury's Condition Powders.	13·4	.....	.....	.. ....	Present.	Present.	....	.....	Capsicum, Carbonate, Gentian, Ginger, Fenugreek, Middlings, Sulphur.	50575
Tuttle's American Condition Powder.	11·9	7·4	...	.....	"	.. ..	.....	. ..	Middlings, Slightly bitter.	50576
"Granger" Condition Powder.	26·8	.. ...	2·1	Present.	"	Present.	.....	... .	Gentian, Linseed, Sulphur.	50577
. ...	20·1	5·4	4·4	"	"	.....	.... .	...	Aloes, Bloodroot, Gentian, Ginger, Liquorice, Rosin.	50578
Acadia Condition Powders.	23·9	7·2	4·5	"	.....	....	11·3	....	Charcoal, Grain products.	50579

* Liquid Preparation. † Liquid Preparation, contains ammonia, camphor, turpentine and soap.
‡ Destroyed in transit.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF QUEBEC—				
1912.							
Feb. 7	Cattle Medicine.	37388	Arthur Drolet, 714 rue St. Valier, Quebec.	3 lbs.	75	International Stock Food Co., Toronto.	P. T. Legare, Quebec.
" 9	" "	37389	Hamel & Bedard, 728 rue St. Valier, Quebec.	3 "	75	" "	"
" 14	" "	37390	Jos. Masson, 808 rue St. Valier, Quebec.	3 "	30	Davis Lawrence, Montreal.	Manufacturers.
" 14	" "	37391	" "	3 "	50	Nyals, New York...	" ....
" 14	" "	37392	" "	3 "	45	L. E. Martel, Quebec	Manufacturer ..
" 14	" "	37393	" "	3 "	75	Toronto Pharmacal Co.	Manufacturers..
" 14	" "	37394	" "	3 "	35	Dr. Ed. Morin. . ..	" . . .
" 14	" "	37395	Hamel & Bedard, 728 rue St. Valier, Que.	3 "	1·05	Jos. Julien, Port Rouge.	W. Brunet, & Cie, Quebec.
" 14	" "	37396	P. Reneaud, 597 rue St. Valier, Quebec.	3 "	50	Pratt Food.....	A. E. Vallerand, Quebec.
1913.							
March 6	" "	37193	A. E. Francoeur, 379½ rue St. Jean, Quebec.	3 pkgs	1 05	Toronto Pharmacal Co., Toronto.	Manufacturers..
" 6	" "	37194	" "	3 "	45	" "	" ..
" 7	" "	37195	Alfred Jolicoeur, 338 rue St. Jean, Que.	3 "	75	F. Stearns, Windsor, Ont.	"
" 7	" "	37196	F. C. Delachevrotiere, 224 rue St. Jean, Que.	3 "	75	" "	"
" 7	" "	37197	W. B. Rogers, 44 rue la Fabrique, Que.	3 "	75	National Drug Co., Montreal.	
			DISTRICT OF THREE RIVERS—				
Mar. 17	Cattle Medicine.	57216	Louis Enos, St. Felix de Valois.	1½ lb.	40	Dr Gatien, St. Hyacinthe.	.. ..
" 19	" "	57236	Louis Bellerose, St. Felix de Valois.	1 lb.	15	Z. Dufresne, Montreal.	....
" 22	" "	57241	C. Barrette, Joliette....	1 "	50	International Stock Food Co., Toronto	... .
" 22	" "	57245	Magnan, Frères, Joliette.	1 pkg.	25	E. St. Jean, Montreal.	... ...
" 22	" "	57247	Theop. Enos, St. Felix de Valois.	1 "	15	Pratt Food Co., Philadelphia.	... .

SESSIONAL PAPER No. 14

CATTLE MEDICINES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.								Other ingredients identified.	No. of Sample.
	Ash.	Common salt.	Sulphuric Acid in Sulphates.	Green Copperas.	Nitre.	Antimony.	Crude Protein.	Water Extract.		
F. X. W. E. BELAND, INSPECTOR.										
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
	18·75	15·9	..	.....	.....	.....	12·1	....	Capsicum, charcoal, gentian. grain products.	37388
	5·25	.....	0·5	Present	....	.....	15·0	....	Ginger, capsicum, charcoal, gentian, carbonate, grain products.	37389
....	9·40	.....	0·9	"	Present	. .	. .	...	Gentian, linseed.	37390
	20·4	5·0	2·5	"	"	...	.....	.....	Bloodroot, gentian, ginger, liquorice, rosin.	37391
	20·3	....	..	.....	"	Present	..	...	Fenugreek, gentian, ginger, linseed and other drugs.	37392
	26·20	10·5	0·1	Present	"	...	...	....	Gentian, yellow ochre, sulphur, grain products.	37393
	9·5	1·9	..	..	"	...	...	..	Sulphur, bitter, oil cake.	37394
	30·0	4·3	0·6	Present	"	.....	...	...	Carbonate, ginger, charcoal, sulphur, grain products, linseed.	37395
	17·7	12·2	...	...	...	..	13·0	..	Gentian, screenings.	37396
	15·55	3·56	.....	.	Present	.....	..	19·54	Fenugreek, sulphur, wild seeds.	37193
	17·64	0·82	4·76	Present	.....	..	...	27·9	Fenugreek, linseed.	37194
	19·8	3·04	4·15	"	.....	Present	....	28·30	Linseed, mustard, liquorice root, sulphur.	37195
	20·6	3·19	5·03	"	...	"	.....	31·8	Linseed, liquorice root, rosin, sulphur, Fenugreek.	37196
	15·7	...	.....	..	Present	..	.....	.....	Capsicum, gentian, resin, other drugs.	37197
DR. V. P. LAVALLÉE, INSPECTOR.										
Conditional Powders	31·26	4·36	.....	Present	...	...	..	40·30	Charcoal, Fenugreek, skunk cabbage, rosin, carbonate, alum.	57216
Quinquinal.....	18·7	9·0	.....	.....	..	...	11·6	...	Bole, middlings, slightly bitter.	57236
	10·0	1·39	....	Present	.....	....	..	31·94	Brewers grains, liquorice root.	57241
..	6·2	...	1·6	"	...	Present	.....	. .	Aloes, middlings, rosin.	57245
	14·3	8·7	0·2	"	.....	...	11·5	...	Gentian, screenings.	57247

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF EASTERN TOWNSHIPS—				
1912.							
Feb. 19	Cattle Medicine.	39057	Berthiame & Lanoue, Farnham.	1 can.	50	American Pure Food Co., Montreal.	
" 19	"	39058	J. E. Baillargeon, Farnham.	3 pkgs	25	International Stock Food Co., Toronto	
" 21	"	39059	Vaughan Bros., Magog.	1 "	50	Pratts Food Co., of Canada, Ltd., Toronto.	
" 21	"	39060	B. E. Goyette, Magog.	1 "	25	Nat. Drug & Chem. Co., Montreal.	
" 27	"	39061	T. Ledoux, St. Guillaume.	1 "	25	The Interprovincial S. F. Co., St. Basile.	
" 27	"	39062	E. Sylvestre, St. Guillaume.	1 "	25	The Joliette Chem. Co., Ltd., Joliette.	
" 27	"	39063	G. E. Aubin, Actonvale	1 "	50	Dr. Fréchette, St. Hyacinthe.	
" 27	"	39064	A. Chicoine, Actonville	1 "	25	Frazier, Thornton & Co., Cookshire.	
" 28	"	39065	O. T. Piche, Drummondville.	1 "	50	The Hackney S. F. Co., Ltd., Toronto	
" 28	"	39066	T. A. Bourgault, Drummondville.	1 "	25	J. T. Hebert, Drummondville.	
" 28	"	39067	A. Birtz, Drummondville.	1 "	40		J. N. Potvin, Drummondville
" 28	"	39068	R. Cardin, Drummondville.	1 "	50	The Beaver Mfg. Co., Ltd., Galt....	
1913.							
Mar. 13	"	1555	F. Morency, Ste. Marie	1 can.	18		Unknown
" 13	"	1556	S. Corriveau, Scotts	1 "	25	Pratt Food Co., Philadelphie.	
" 17	"	1557	A. Militte, Windsor Mills.	1 "	25	J. Burton, Sherbrooke.	
" 17	"	1558	J. Masse & fils, Roxton Falls.	1 "	50	International Stock Food Co., Minneapolis.	
" 18	"	1559	R. Cardin, Drummondville.	1 "	25	The D. & D. Nat. Med. Co., St. Basile Station.	
			DISTRICT OF MONTREAL—				
Mar. 5	Cattle Medicine.	51231	Wm. Ewing Co., McGill st., Montreal.	1 can.	50	Wm. Rust & Sons. New Brunswick, N.J.	
5 "	"	51232	O. T. Pinck, 348 Notre Dame st. West, Montreal.	1 pkg.	25	Vendor	

SESSIONAL PAPER No. 14

CATTLE MEDICINES

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Ash.	Common Salt.	Sulphuric Acid in Sulphates.	Green Copperas.	Nitre.	Antimony.	Crude Protein.	Water Extract.	Other ingredients. indentified.	No. of Sample.
J. C. ROULEAU, INSPECTOR.										
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
Quinquinol	12·6	6·3	0·1	.....	.. ..	.....	16·8	.....	Bole, bran, gentian.	39057
International	19·8	14·9	0·1	Present.	.....	....	13·7	.....	Capsicum, charcoal, gentian, ginger, grain products, linseed.	39058
Pratts	17·9	9·2	.. .	.....	.....	....	11·9	.....	Gentian, ginger, screenings, some aromatic.	39059
Anglo Saxon	12·7	5·3	0·9	Present.	Present.	.....	.....	...	Charcoal, gentian, ginger, middlings, sulphur.	39060
Interprovincial	20·0	8·1	...	.....	.....	.....	16·9	.....	Gentian, charcoal, grains products linseed.	39061
Vinks	38·2	32·5	1·3	Present.	Present.	Present.	.....	.....	Gentian, liquorice, grains products.	39062
Perfection	24·4	4·6	3·6	"	"	....	.....	.....	Bloodroot, fenugreek, ginger, linseed, liquorice, rosin, sulphur	39063
Acme	5·5	.....	.....	.....	.. ..	.....	17·2	.....	Cha coal, fenugreek, middlings.	39064
Hackney	18·2	13·2	0·4	Present.	.. .	....	13·0	...	Capsicum, charcoal, gentian, grain produits.	39065
L'Acadienne	19·2	10·1	0·4	"	.....	.....	22·1	. .	Linseed, fenugreek, middlings, sulphur.	39066
Purina	18·7	16·9	0·2	"	.....	.....	17·4	.. ..	Linseed, corn.	39067
Herbageum	13·3	10·1	....	.....	.....	.....	24·2	....	Bran, charcoal, linseed, gentian.	39068
Maud S	10·0	.....	1·6	Present.	Present.	Present.	....	.....	Fenugreek, gentian, linseed.	1555
Reg. No. 448	20·4	2·1	..	.....	.....	.....	12·0	. .	Gentian, ginger, bole, screenings.	1556
Pick-Me-Up	18·2	.	5·5	Present.	Present.	.....	.....	.. ..	Grain products, bole, rosin, gentian.	1557
. ...	8·9	.	0·8	.....	... ..	.....	13·2	. .	Bole, bran, rosin.	1558
....	21·8	20·2	.....	.....	.....	... .	13·9	.....	Middlings.	1559
J. J. COSTIGAN, INSPECTOR.										
Rusts Haven's Climax Powder.	7·25	.....	.....	Present.	....	... ..	... ..	10·0	Aniseed, linseed, liquorice root.	51231
Youatt's Condition Powder.	23·4	5·5	.....	.....	Present.	.....	.....	.....	Charcoal, fenugreek, linseed, sulphur.	51232

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF MONTREAL—							
1913.							
Mar. 5	Cattle Medicine.	51233	A. Guertin, 538 Notre Dame st, west. Montreal.	1 bot.	50	International Stock Food Co.	.....
" 5	"	51234	Leo. P. Ryan, 545 Notre Dame st., west, Montreal.	1 "	25	The Wingate Chem. Co.	.. ..
" 5	"	51235	Standard Pharmacy, 549 St. Jacques st., Montreal.	1 "	25	New York & London Drug Co.	....
DISTRICT OF OTTAWA—							
1912.							
Feb. 6	Cattle Medicine.	50176	J. W. McKay, Ottawa..	3 lbs..	9	The Beaver Mfg. Co., Ltd., Galt, Ont.	Mfrs.....
" 6	" ..	50181	" " ..	3 pkgs	75	International Stock Food Co., Minneapolis.	" .....
1913.							
Feb. 28	" ..	51760	S. G. Lindsay, Aylmer, P.Q.	1 pkg.	25	International Stock Food Co., Toronto.	" ....
" 25	" ..	51761	B. F. Smith, Winchester	1 " ..	50	W. A. Jenkins Mfg. Co., London, Ont.	" ....
" 28	" ..	51762	R. Picard, Hull..	1 " ..	25	Hull Medical Hall, Hull.	" ....
Mar. 4	" ..	51763	T. T Beattie, Ottawa..	1 " ..	50	Pratt Food Co., Philadelphia, Pa.	" .... ..
" 7	" ..	51764	" " ..	1 " ..	50	The Hackney Stock Food Co.. Ltd., Toronto.	" .....
DISTRICT OF KINGSTON—							
1912. Feb. 5	Cattle Medicine.	49551	J. McLeod, Kingston..	3 lbs..	1·00	W. A. Jenkins, London, Ont.	.. ..
1913.							
Feb. 21	" ..	53072	Geo. Gibson, " ..	1 pkg.	25	Pratt Food Co., Toronto.	.....
" 21	" ..	53073	W. P. Peters, " ..	1 " ..	50	International Stock Food Co., Toronto.	.....
" 21	" ..	53074	J. B. McLeod, " ..	1 " ..	25	Stearns, Windsor, Ont.	....
" 24	" ..	53075	C. Rathman, Belleville.	1 " ..	25	International Stock Food Co., Toronto.	.....
" 25	" ..	53076	W. H. Semple, Cobourg.	1 " ..	25	H. Semple, Cobourg.	... .

SESSIONAL PAPER No. 14

CATTLE MEDICINES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Ash.	Common Salt.	Sulphuric Acid in Sulphates.	Green Copperas.	Nitre.	Antimony.	Crude Protein.	Water Extract.	Other ingredients identified.	No. of Sample.
Concluded.										
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
International Heave Cure.	10·3	1·6	2·0	.....	.....	.....	13·2	.....	Bole, middlings, rosin.	51233
Harry Bradley's Tonic Condition Powder.	12·6	.....	.....	.....	Present.	Present.	.....	.....	Fenugreek, linseed....	51234
Nyall's Condition Powder.	24·1	5·1	5·7	Present.	"	.	.....	.....	Aloes, bloodroot, ginger, rosin, sulphur.	51235
J. A. RICKEY, INSPECTOR.										
Herbageum.....	14·1	10·0	0·1	....	. .	..	....		Bran, charcoal, gentian, linseed.	50176
.. ..	18·7	14·7	0·1	Present.	. ...	..	.....		Capsicum, charcoal, gentian, grain products.	50181
International.....	12·07	3·36	.....	.....	..	....	22·23		Oil cake, linseed, mustard, grain products.	51760
Royal Purple Stock Specific.	9·73	.....	4·53	.....	.....	....	12·45		Linseed, liquorice root, aniseed, gentian.	51761
"Our Own" Condition Powder.	17·9	1·14	4·80	Present.	Present.	Present.	26·9		Fenugreek, liquorice root, gentian.	51762
Pratt's Calf Tonic...	17·26	4·82	....	"	"	..	22·56		Grain products, tartaric acid.	51763
Hackney Stock Tonic.	14·88	4·10	.....	"	...	...	26·25		Bran, charcoal.	51764
JAS. HOGAN, INSPECTOR.										
Royal Purple.	13·4	. ....	6·4	Present.	.....	.....	23·0	.....	Fenugreek, gentian, linseed and sulphur.	49551
....	24·10	2·82	7·10	...	Present.	.....	.....	29·66	Fenugreek, gentian, oil cake.	53072
....	47·4	44·8	0·2	Present.	.....	.....	.....	.....	Gentian, wormseed, grain products.	53073
....	*	.....	.....	.....	.....	.....	.....	.. ...		53074
... .	*	... .	.....	.....	.....	. .	....	.....		53075
....	*	...	.....	....	.....	.....	.....	.....		53076

* Destroyed in transit.

Date of Collection.	Nature of Sample.	No of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO–							
1913.							
Feb. 25	Cattle Medicine.	51588	J. A. Johnstone & Co., 171 King st., east, Toronto.	1 lb.	20		
" 28	"	51589	The Veterinary Specialty Co., 163 Dundas st., Toronto.	1 "	25		
Mar. 7	"	51590	International Stock Food Co., 92 Adelaïde st., east, Toronto.	1 "	25		
" 7	"	51591	Pratt Food Co. of Canada, Ltd., 85 Terauley st., Toronto.	1 "	25		
" 10	"	51592	Dominion Stock Food Co., Duncan st., Toronto.	1 "	50		
DISTRICT OF HAMILTON–							
April 23	Cattle Medicine.	57151	Robt. Ralston & Co., 26 McNab st., south, Hamilton.	5 lbs.	50	Vendors	
" 23	"	57152	G. C. Briggs & Sons, 122 King st., west, Hamilton.	2 pkg.	25	"	
" 23	"	57153	Thos. Moffatt, 20 King William st., Hamilton	2½ lb.	25	W. H. Wodehouse, Hamilton.	
" 24	"	57154	Blaicher & Reche, John and Main, sts., Hamilton.	1 pkg.	25	Vendors	
" 24	"	57155	The Jas. Dunlop Co., Ltd., 127-131 John st., south, Hamilton.	1 "	50	The W. A. Jenkins Mfg. Co., London, Ont.	
DISTRICT OF LONDON–							
1912.							
Feb. 9	Cattle Medicine.	47890	W. J. Heaman, Exeter.	3 jars.	25	International Stock Food Co., Toronto.	
" 20	"	48204	Ford & McLeod, Clinton.	3 "	50	W. A. Jenkins Mfg. Co., London, Ont.	
" 20	"	48206	"	3 "	25	Pratt Food Co., Toronto.	

SESSIONAL PAPER No. 14

CATTLE MEDICINES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Ash.	Common Salt.	Sulphuric Acid in Sulphates.	Green Copperas.	Nitre.	Antimony.	Crude Protein.	Water Extract.	Other ingredients identified.	No. of Sample.
H. J. DAGER, INSPECTOR.										
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
Labelled. The Stockman's Favourite Yorkshire Stock Food. Reg. No. 43.	15·9	5·7	1·7	Present.	.....	Present.	.....	.....	Fenugreek, middlings, rosin, gentian, sulphur.	51588
Labelled. Drs. Vanzant & Waring's Stock Tonic and Blood Purifier.	22·5	10·8	.....	.....	Present.	.....	.....	.....	Gentian, middlings, carbonate.	51589
Labelled. International Medicinal Stock Food Tonic. Strictly Medicinal.	15·99	3·90	1·86	.....	.....	.....	.....	25·59	Oil cake, linsed, mustard, grain products.	51590
Pratt's, of Canada, Ltd., Animal Regulator.	11·03	4·50	.....	Present.	.....	.....	.....	24·68	Fenugreek, charcoal, grain products.	51591
Dominion Stock Food.	15·54	0·61	.....	.....	.....	.....	.....	20·91	Linseed, sulphates.	51592
H. J. DAGER, ACTING INSPECTOR.										
Labelled. Reg. No. 19. Can. gold medal, Kingston, Jamacia Food.	13·84	4·49	.....	.....	Present.	.....	.....	25·66	Linseed. Skunk cabbage.	57151
Labelled. Wade's Condition Powder.	39·46	2·82	.....	.....	.....	Present.	.....	49·39	Bran, Fenugreek, Charcoal, Linseed, Crystals.	57152
Labelled. Wodehouse's Animal Invigorator.	7·15	1·45	.....	.....	.....	.....	.....	11·46	Rosin, Linseed, Grain products.	57153
Labelled. Reche's Condition Powder.	30·7	10·6	1·7	Present.	Present.	Present.	.....	.....	Gentian, Linseed, Rosin, Sulphur.	57154
Royal Purple Stock Specific.	16·8	.....	2·23	.....	.....	.....	.....	17·4	Linseed, Liquorice Root.	57155
J. N. TALBOT, INSPECTOR.										
.....	19·1	16·3	.....	.....	.....	.....	12·6	.....	Capsicum, Gentian, Grain products, Charcoal.	47890
Royal Purple Stock Specific.	10·4	.....	6·2	Present.	Present.	Present.	.....	.....	Fenugreek, Linseed, Sulphur.	48204
Pratt Conditioner Reg. No. 448.	10·0	7·9	0·2	.....	.....	.....	14·7	.....	Gentian, Linseed, Other seeds.	48206

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1913.							
Feb. 27	Cattle Medicine.	47942	A. J. Morgan, London, Ont.	1 pkg.	50	Drs Hess & Clark, Cleveland, U.S.A.	
" 27	" ..	47943	" ..	1 "	25	Pratt Food Co., Toronto.	
" 27	" ..	47944	" ..	3 tins.	150	Conkey Co., Cleveland, U.S.A.	
" 27	" ..	47945	W. A. Jenkins, London, Ont.	1 pkg.	Nil.	Vendor	
" 27	" ..	47946	F. W. Heighway, London, Ont.	1 "	50	Dr E. W. Heighway, Masonville.	
DISTRICT OF MANITOBA—							
1912.							
Feb. 15	Cattle Medicine.	48631	Olafsson Grain Co., Winnipeg.	4 lbs..	50	International Stock Food Co., Toronto.	Scott Bathgate & Co., Winnipeg.
" 15	" ..	48632	Carnefac Stock Food Co., Winnipeg.	3 " ..	50	W. G. Douglas, Winnipeg.	
" 15	" ..	48633	Laing Bros., Winnipeg.	3 " ..	25	Colonial Stock Food Co., Weston, Ont.	
" 15	" ..	48634	" " ..	3 " ..	50	Pratt Food Co. of Canada, Ltd.	
1913.							
Mar. 10	Cattle Medicine	48866	" " .	1 pkg.	25	Pratt Food Co.	
" 10	" ..	48867	A. J. Brown & Co., Winnipeg.	1 " ..	25	Nyal Drug Co., New-York and London.	
" 10	" ..	48868	The Mayer Co., Winnipeg.	1 " ..	50	Vendors	
" 10	" ..	48869	" " ..	1 " .	50	"	
" 15	" ..	a48869	Elmwood Drug Store, 303 ave. Nairn, Elmwood, P.O.	1 " ..	75	Nyal Drug Co., New-York and London.	
DISTRICT OF CALGARY—							
1912.							
Mar. 9	Cattle Medicine.	44151	Hegler & Hegler, Edmonton.	3 lbs..	25	Drs Hess & Clark, Ashland, U.S.A.	
" 9	" ..	44152	" " ..	3 " ..	25	International Stock Food Co., Minneapolis.	
" 19	" ..	44153	A. E. McKenzie Co., Ltd., Calgary.	3 " ..	25	G. E. Lee Co., Omaha, Neo.	
" 19	" ..	44154	" " ..	3 " ..	75	The G. E. Conkey, Co., Cleveland, U.E.	

SESSIONAL PAPER No. 14

CATTLE MEDICINES.

Inspector's Rport. (Is not an expression of Opinion).	Results of Analysis. Ash.	Common Salt.	Sulphuric Acid in Sulphates.	Green Copperas.	Nitre.	Antimony.	Crude Protein.	Water Extract.	Other ingredients identified.	No. of Sample.
JNO. TALBOT, INSPECTOR.										
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
Labelled: Dr. Hess Worm Powder.	19·2	.....	6·86	Present.	.....	.....	.....	27·04	Bran, aniseed, gentian, carbonate.	47942
Pratt's Animal Regulator.	21·1	17·4	.....	.....	.....	.....	12·0	.....	Gentian, ginger, fenugreek, screenings.	47943
Conkey's Worm Remedy.	8·9	.....	.....	.....	.....	.....	.....	.....	Naphtalene.....	47944
Royal Purple Stock Specific.	11·73	.....	5·97	Present.	.....	.....	.....	17·07	Fenugreek, linseed, Aniseed, liquorice root.	47945
Dr. Heighway Stock Conditioner	15·0	.....	5·34	.....	.....	Present.	.....	22·19	Linseed, charcoal, Weed seeds.	47946
A. C. LARIVIÈRE, INSPECTOR.										
.....	19·0	11·8	0·4	Present.	.....	.....	13·7	....	Capsicum, gentian, charcoal, grain products.	48631
.....	12·0	4·1	8·1	"	.....	.....	18·9	....	Carbonate, charcoal. Linseed, some bitter.	48632
.....	35·9	21·0	9·5	"	.....	.....	7·5	.....	Gentian, ginger, nut shells.	48633
.....	22·3	16·9	...	....	.....	.....	12·0	...	Gentian, ginger, screenings.	48634
Condition Powders..	12·6	4.4	.....	.....	.....	.....	12·6	.	Gentian, screenings.	48866
.....	24·1	1·7	5·5	Present.	Present.	.....	.....			48867
Worm Powders.....	13·7	.....	8·3	"	.....	.....	.....			48868
Condition Powders..	26·1	0·2	4·4	"	Present.	.....	.....			48869
" " ..	22·6	5·5	1·2	"	"	.....	.....	..		a48869
R. W. FLETCHER, INSPECTOR.										
.. ..	42·5	34·5	1·5	Present.	Present.	.....	.....	.....	Charcoal, gentian, Grain products.	44151
..	5·2	...	0·4	"	.....	.....	16·6	.	Capsicum, carbonate, Charcoal, gentian, ginger, middlings.	44152
.	18·2	9·7	1·9	"	...	.....	.....	.	Capsicum, charcoal, grain products, gentian, linseed.	44153
.. .	20·0	.....	4·3	"	.....	.....	.....	.....	Charcoal, gentian, grain products.	44154

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF NELSON—	
1912.							
Feb. 13	Cattle Medicine.	49602	J. H. Clements, Kamloops, B.C.	1 pkg.	50	International Stock Food Co., Minneapolis.	.....
" 20	" ..	49630	Harvey Bailey, Ltd., Ashcroft, B.C.	5 lb.	60	Beaver Mfg. Co., Galt, Ont.	.....
						DISTRICT OF ROCKY MOUNTAINS—	
1913.							
Mar. 11	Cattle Medicine	49825	Rutherford Drug Co., Nelson, B.C.	1 pkg.	25	Vendors.....	.....
" 11	" ..	49826	" " ..	1 " ..	25	"	.....
" 11	" ..	49829	Poole Drug Co., Nelson, B.C.	1 " .	25	New York & London Drug Co., New-York	.....
" 11	" ..	49830	" " ..	1 " ..	50	Pratt Food Co., Philadelphia.	.....
" 11	" .	49831	Brackman Ker, M. Co., Nelson, B.C.	1 " ..	25	" " .	.....
						DISTRICT OF VANCOUVER—	
Mar. 11	Cattle Medicine..	53451	Nat. Drug and Chem. Co., Vancouver, B.C.	1 lb.	25	Vendors.....	.....
" 11	" .	53452	Broadway Pharmacy, Broadway & Granville, Vancouver, B.C.	1 pkg.	25	Nyals, Ltd., Windsor, Ont.	.....
" 14	" ..	53453	Marrett & Reid, 7th Ave. and Main, Vancouver, B.C.	1 "	25	LePatourel & McRae, Vancouver, B.C.	.....
" 14	" ..	53454	J. B. Boyle, Kitselano, B.C.	1 "	50	Henderson Bros., Vancouver, B.C.	.....
						DISTRICT OF VICTORIA—	
Mar. 11	Cattle Medicine..	53539	John Cochrane, 1300 rue Douglas, Victoria, B.C.	1 lb.	25	New York & London Drug Co., New-York.	.....
" 11	" ..	53540	Hall & Co., 702 rue Yates, Victoria, B.C.	1 "	25	Canadian Pharmacal Assn., Toronto, Ont.	.....
" 18	" ..	53541	Fernwood Pharmacy, 1301 Gladstone Ave., Victoria, B.C.	1 "	25	Stearns, Windsor, Windsor, Ont.	.....
" 28	" .	53542	Thos. Shotbolt, 589 rue Johnston, Victoria, B.C.	1 "	50	Vendor.....	.....
" 28	" ..	53543	Scott & Peden, 3-5-7 Store st., Victoria, B.C.	1 "	1.00	John Potter & Sons, Sydney, Australie.	.....

SESSIONAL PAPER No. 14

CATTLE MEDICINES.

Inspector's Report (Is not an expression of Opinion.)	Results of Analysis.								Other ingredients identified.	No. of Sample.
	Ash.	Common Salt.	Sulphuric Acid in Sulphates.	Green Copperas.	Nitre.	Antimony.	Crude Protein.	Water Extract.		
THOS. PARKER, INSPECTOR.										
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
.....	20·0	14·7	...	.....	....	....	12·9	.....	Capsicum, charcoal, gentian, grain products.	49602
.....	15·4	10.5	0 1	Present.	....	....	21·4	.....	Charcoal, gentian, linseed, some aromatic.	49630
THOS. PARKER, INSPECTOR.										
Condition Powder...	35·5	9·2	9·4	Present.	Present.	.....	.....	...	Carbonate, linseed, rosin, sulphur, some bitter.	49825
Horse Worm Powder	39·9	22 8	1·4	"	.....	Present.	.....	...	Fenugreek, tartaremetic wormseed.	49826
Condition Powder...	23·7	4·9	4·4	"	Present	.....	.....	...	Aloes, bloodroot, gentian, liquorice, rosin.	49829
" " ..	14·4	5·0	..	.....	.....	.....	12·7	.....	Gentian, screenings.	49830
"Animal Regulator."	11 1	9·0	.....	.....	.....	.....	9·8	.....	Gentian, grain products, little charcoal.	49831
J. F. POWER, INSPECTOR.										
Condition Powder...	21·1	....	.....	...	Present.	Present.	.....	.....	Linseed, rosin, sulphur.	53451
" ..	21·7	5·3	3·9	Present.	"	.....	.....	.....	Bloodroot, gentian, ginger, liquorice, rosin.	53452
" .	13·91	0·67	6·20	"	.....	.....	.....	15 94	Bark, gentian	53453
" ..	20·8	.	....	.	Present.	.. ..	....	26·19	Rosin, linseed, sulphur, senna.	53454
D. O'SULLIVAN, INSPECTOR.										
.....	24·8	4·4	2·4	Present.	..	.....	.....	...	Bloodroot, ginger, liquorice, rosin, sulphur.	53539
.....	36·5	8·0	9·6	"	Present.	.....	.....	...	Linseed, rosin, sulphur	53540
.....	15·3	0·5	3·7	"	"	Present.	....	.....	Bicarbonate, bloodroot, gentian, other drugs.	53541
.....	22·0	.....	.....	.....	"	"	...	.....	Capsicum, fenugreek, gentian, rosin, sulphur.	53542
.....	16·9	....	10·2	.....	...	.. ..	.....	.....	Assafoetida, bole, linseed, rosin, sulphur.	53543

APPENDIX Z

BULLETIN No 283—ALE (BEER)

OTTAWA, March 26, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report dealing with 75 samples sold as Ale or Beer These were obtained by our inspectors throughout Canada in September, October and November of last year.

Table I. Shows the sources of the samples; the prices paid for them, the names of manufacturer or furnisher and remarks made by the inspector.

Table II. Gives the numerical results of analysis in the same order as that of the samples in Table I.

Table III. Contains the numerical results of analysis arranged in such order as to render comparable among themselves those obtained with ales of similar name. With regard to this table it is to be observed that the same manufacturer may offer ales of different brands or strengths or quality, so that it may not in every case mean actual carelessness in manufacture when the analytical results obtained with ales which appear in juxtaposition in this table, show considerable differences. It may be that the information furnished to us with the samples was insufficient to make evident these different brands.

This explanation is made as just to the manufacturer; but a careful study of the Table III shows that, among different samples of ale having the same nominal origin, a decided similarity is found. This must be taken to indicate a systematic method obtaining in manufacture, and great care taken in the following out of such method.

An Order in Council of February 8, 1911 (published as Circular G. 947) defines malt liquors, as below:—

6. MALT LIQUORS AND MALT BEVERAGES.

1. Malt liquor is a beverage made by the alcoholic fermentation of an infusion, in potable water, of barley malt and hops.

2. Ale or beer is a beverage produced by top fermentation of an infusion, in potable water, of barley malt and hops; with or without other starchy and saccharine matters, and contains in one hundred (100) cubic centimetres (20° C.) not less than two and seventy-five one-hundredths (2.75) grammes of alcohol (equivalent to six (6) per cent by volume of proof spirits), nor less than three and one half (3.5) grammes of extract), and not less than eleven one-hundredths (0.11) gramme of ash, chiefly potassium phosphate.

3. Porter and stout are varieties of ale or beer made in part from highly roasted malt, or barley, and agree, in other respects, with the requirements for ale and beer.

4. Lager beer is beer produced by bottom fermentation which contains, in one hundred (100) cubic centimetres (20° C.) not less than three and one half (3.5) grammes of extractive matter and eleven one-hundredths (0.11) gramme of ash, chiefly potassium phosphate, and not less than two and fifty-one-hundredths (2.50) grammes of alcohol, equivalent to four and four-tenths (4.4) per cent by volume, of proof spirits.

5. Light beer is a beer containing in one hundred (100) cubic centimetres, at 20° C. less than two grammes of alcohol (equivalent to less than four and four-tenths (4.4) per cent by volume of proof spirits).

Except in its minimum alcohol value it will be seen that lager beer is defined with the same constants as ale.

The extractive matter is slightly below legal requirements in 7 samples, and decidedly low in 8 samples of the present collection.

It is hoped that a study of the analytical numbers herein placed on record will enable us to so interpret them as to arrive at a judgment regarding the mode of manufacture of ales, and the materials employed. This difficult problem is now engaging the attention of other chemists, and some encouraging results have been obtained. In order to its solution it will be necessary to make experimental research upon ales of known origin; and it has been found impossible with my limited staff to carry the work to completion.

In order that these analytical data may be available to those interested, I would respectfully advise publication of the report as Bulletin No. 283.

I have the honour, to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 283—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.								
1913.								
Oct. 22	Ale	54301	Halifax Breweries, Ltd., Halifax, N.S.	3 bots.	Nil.	Vendors.		India Pale Ale.
" 22	"	54302	Kelley & Glassey, Halifax, N.S.	3 "	40	McEwen, Edinborough, Scot.	Mfr.	Scotch Ale.
" 22	"	54303	" "	3 "	45	Bass & Co., London, Eng.	G. C. Hibberts & Co., London, Eng.	Pale Ale.
22	"	54304	A. Keith & Son, Halifax, N.S.	3 "	Nil.	Vendors.		"
" 22	"	54305	Oland & Son, Halifax, N.S.	3 "	"	"		"
DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.								
Sept. 20	Ale (beer)	50362	Simeon Jones, Ltd., St. John, N.B.	3 bots.	50	Vendors.		
" 24	"	50363	Ready's Breweries, Ltd., St. John, N.B.	3 "	50	"		Ready's Pale Ale. Diamond R.
" 29	"	50364	Comeau & Sheehan, St. John, N.B.	3 "	75	Alexander Keith & Son, Halifax, N.S.		Nova Scotia Brewery. "Veritas Vincent."
" 29	"	50365	John Labatt, Ltd., St. John, N.B.	3 "	60	John Labatt, Ltd., London, Ont.		India Pale Ale.
" 29	"	50366	R. Sullivan & Co., St. John, N.B.	3 "	75	Bass & Co., Burton Trent, Eng.		India Pale Ale. "Hawk's Head."
DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.								
Sept. 23	Ale (beer)	56144	G. Pepin, 132, rue Massue, Quebec.	3 bots.	37	Fox Head, Quebec.	Mfr.	
" 23	"	56145	" "	3 "	37	Brasserie de Champlain, Quebec.	"	
" 23	"	56146	" "	3 "	42	Bossnell, Quebec.	"	
" 23	"	56147	" "	3 "	32	Fox Head, Quebec.	"	
" 23	"	56148	O. Bacon, 28, rue Hermine, Quebec.	3 "	40	Bossnell, Quebec.	"	

SESSIONAL PAPER No. 14

ALE (BEER)—TABLE I.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
DISTRICT OF THREE RIVERS—DR. V. P. LAVALLÉE, INSPECTOR.								
1913.								
Sept. 19	Ale	59726	A. L. Caisse, Berthierville.	3 bots.	45	Dawes Co., Lachine.		
" 19	"	59727	O. Paquette, Berthierville.	3 "	45	Gold Lion Brewing Co., Ltd., Valleyfield.		
" 19	"	59728	J. A. Laporte, Berthierville.	3 "	30	Eckers Brewing Co., Montreal.		
" 22	"	59729	George Gouin, St. Felix de Valois.	3 "	30	Silver Spring, Sherbrooke.		
" 22	"	59730	Ludger Duperrault, St. Felix de Valois.	3 "	50	Molson, Montreal.		
DISTRICT OF EASTERN TOWNSHIPS—J. C. ROULEAU, INSPECTOR.								
Sept. 29	Beer	1729	J. U. Brunnette, Victoriaville.	3 bots.	35	Silver Spring Brewery, Ltd., Sherbrooke.		Silver Spring.
Oct. 1	"	1730	Silver Spring Brewery, Ltd., Sherbrooke.	3 "	35	Vendors		
" 1	"	1731	National Breweries, Ltd., Sherbrooke.	3 "	25	Wm. Dow & Co., Montreal		Dow's
" 13	"	1732	Leop. L. Hureux, St. Hyacinthe.	3 "	25	St. Lawrence Brewery, Ltd., Cornwall.		Cornwall.
" 13	"	1733	F. Orsali & Cie, St. Hyacinthe.	3 "	25	Dow's Breweries, Lachine.		Red Horse.
DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.								
Nov. 4	Beer	58616	N. Lalonde, 364 Charlevoix, st., Montreal	3 bots.	38	Dawes Breweries, Lachine.		Black Horse Ale
" 4	"	58617	H. Harel, 361 Charlevoix, st., Montreal	3 "	38	Wm. Dow & Co.		
" 4	"	58618	A. Jean, 471 Charlevoix, st., Montreal	3 "	31	Canadian Breweries.		
" 4	"	58619	A. Kathe, 555 Grand Trunk st., Montreal	3 "	38	John H. R. Molson & Bros.		
" 4	"	58620	E. Valade, 230 Chateauguay st., Montreal.	3 "	30	The Independent Breweries Co., Ltd.		

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF VALLEYFIELD—D. J. KEARNEY, ACTING INSPECTOR.								
1913.								
Nov. 12	Beer.	58656	John McDonald, River Beaudette.	3 bots	45	John McCarthy & Sons, Prescott.		
" 12	"	58657	M. Beauchamp, River Beaudette.	3 "	45	Dawes Breweries, Lachine		Red Horse Ale.
" 20	"	58658	Salaberry Hotel, Valleyfield.	3 "	45	Gold Lion Brewing Co., Valleyfield.		
" 20	"	58659	Arthur Sauvé, Valleyfield.	3 "	45	"		
" 20	"	58660	A. D. Leduc, Valleyfield.	3 "	45	"		
DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.								
Sept. 30	Ale.	42895	Chelsea Trading Co., Ltd., Bank st., Ottawa.	3 bots	45	Wm. Dow & Co., Montreal	Dawes, Ottawa.	Indian Pale Ale.
" 30	"	42896	"	3 "	45	Dawes, Ottawa	Manufacturers.	"
" 30	"	42897	J. Lavigne, Wellington st., Ottawa.	3 "	45	The Brading BrewingCo., Ltd., Ottawa	"	This ale is brewed from pure malt and the best English Bavarian hops.
" 30	"	42898	"	3 "	45	Carling's Ottawa.	"	
Oct. 3	"	42899	Walter Cunningham, Rideau st, Ottawa.	3 "	45	The Reinhardt Salvador Brewery Ltd., Toronto.	"	Sterling Spécial.
DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.								
Sept. 18	Beer.	60026	James McParland, Kingston.	3 bots	45	Labatts, London.		
" 18	"	60027	J. Gordon, Kingston	3 "	45	Coplands, Toronto.		
" 18	"	60028	G. Thompson, Kingston.	3 "	45	J. Fisher, Portsmouth.		
" 18	"	60029	E. Beaupré, Kingston.	3 "	60	O'Keefe, Toronto.		
" 22	"	60030	J. Ray, Belleville.	3 "	27	Vendor.		

SESSIONAL PAPER No. 14

ALE (BEER)—TABLE I.

Date of Collection.	Nature of Sample.	No. of Sample.	Name an Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO H. J. DAGER, INSPECTOR.								
1913.								
Sept. 17	Beer	57484	J. W. Ryan, 1883 Queen st., West, Toronto.	3 bots	36	.....	The Cosgrave B. Co., Ltd., Toronto.	
" 18	"	57485	H. P. Redway, 212 Queen st., East, Toronto.	3 " ..	35	.....	The Dom. B. Co., Ltd., Toronto	Pale Ale.
Sept. 18	"	57486	John Mather, 152 King st., East, Toronto.	3 " ..	36	..	Copland B Co., Ltd., Toronto.	Pale Ale.
" 18	"	57487	A. Graham, 3 McCaul st., Toronto.	3 " ..	45	.....	The O'keefe B. Co., Ltd., Toronto.	O'keefe's Special extra mild ale.
" 19	"	57488	E. T. Sandell, 525 Yonge st., Hamilton	3 " ..	45	.....	Sleeman & Sons, Ltd., Guelph.	Silver Creek Brewery Ale.
DISTRICT OF HAMILTON—J. J. COSTIGAN, ACTING INSPECTOR.								
Sept. 29	Ale..	50865	John O. Carpenter, 10 Market Square, Hamilton.	3 bots	36	Carlings, London, Ont.	.....	Amber Ale.
" 29	"	50866	" "	3 " ..	36	Grant's Spring B. Co., Ltd.	.....	Pale Ale.
" 29	"	50867	" "	3 " ..	36	Dom B. Co., Ltd., Toronto	.....	Export White Label.
" 29	"	50868	M. Cummings, 2, Barton st., Hamilton.	3 "	30	Grant's Spring B. Co., Ltd.	.....	East India Pale Ale.
" 29	"	50869	" "	3 " ..	30	.....	.....	Labatt's India Pale Ale.
DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.								
Oct. 8	Ale.	54412	R. Callinan, Petrolia.	3 bots	45	J. Labatt, London.	.....	Labatt's India Pale Ale.
" 9	"	54414	D. Donaldson, Sarnia	3 " ..	60	Coplands, Toronto.	.....	Copland's Pale Ale.
" 9	Lag., beer	54415	" "	3 " ..	45	B. Am. B. Co., Windsor.	.....	Cincinatti Cream Export.
" 9	Ale.... ..	54421	C. H. Pugh, Sarnia.	3 " ..	50	Carling B. & M. Co., London.	.....	Carling's Amber Ale.
" 9	Lag., beer	54422	" "	3 " ..	50	Walkerville B. Co., Walkerville.	....	Superior Lager Beer.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MANITOBA A. C. LARIVIERE, INSPECTOR.								
1913.								
Sept. 27	Ale (beer)	48941	E. L. Drewery, Winnipeg.	3 bots.	Nil	Vendor		Refined Ale.
" 29	" ..	48942	McDonagh & Shea, Winnipeg.	3 "	....	Vendors		
" 30	" ..	48943	T. D. Cavanagh, Winnipeg.	3 "	50	Bass & Co		Bottled by C. C. Hibbert & Co., London.
" 27	" ..	48944	The Empire Brewing Co., Brandon.	3 "		Vendors		
" 27	" ..	48945	The Brandon Brewing Co., Brandon.	3 "	....	"		
DISTRICT OF ROCKY MOUNTAINS THOS. PARKER, INSPECTOR.								
Oct. 2	Beer. ...	49961	E. A. Taylor, Nelson, B.C.	3 bots	1.00	Fernie Fort Steele B. Co., Fernie.		
" 2	" ..	49962	Nelson Brewery Co., Nelson, B.C.	3 "	1.00	Vendors		
" 17	" ..	49987	Pollock Wine Co., Fernie, B.C.	3 "	1.00	Elk Valley B. Co., Michel, B.C.		
Nov. 1	" ..	49988	A. Mueller, Trail, B.C.	3 "	1.00	Vendor		
" 3	" ..	49989	Smith & Belton, Rossland, B.C.	3 "	1.00	Le Roi B. Co., Rossland, B.C.		

SESSIONAL PAPER No. 14

ALE (BEER)—TABLE I.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendyr.	Cost. Quantity.	Cost. Cents.	Name and Address Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion.)
DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.								
1913								
Sept. 24	Ale.	57641	T. J. Jackman, 608 View st., Victoria, B.C.	3 qts.	50	Silver Spring B. Co., Ltd., Victoria, B.C.		Tate's English Ale.
" 24	.....	57642	B.C. Wine Co., Ltd., 1216 Douglas st., Victoria, B.C.	3 "	45	Victoria Phoenix B. Co., Ltd., Victoria, B.C.		Victoria Phoenix Ale.
Oct. 6	"	57645	The West End Grocery Co., Ltd., 1002 Government st., Victoria, B.C.	3 "	90	Bass & Co., Eng.		Bass's Red Label Pale Ale.
" 6	.....	57646	D. Stewart, 607 Yates st., Victoria B.C.	3 "	90	Meux & Co., London.		Meux's London Pale Ale.
" 6	" ...	57647	Dixi H. Ross & Co., 1316 Broad st., Victoria, B.C.	3 "	90	Bass & Co., Eng.		Bass & Co., Pale Ale Beaver Brand.

BULLETIN No. 283—ALE—(BEER)—TABLE II.

Name of Inspectoral District.	No. of Sample.	Specific Gravity at 15·5°c.			Alcohol p. c.			Solids in Original wort.	Solids in Beer p.c.	Malt used. Pounds per Gallon.	Degree of Fermentation.	Total Acidity Grams as Lactic per 100cc.	Ash.	Protein.	P_2O_5.	Salicylic Reaction.	SO_2.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Beer.	Distillate.	Residue.	Weight.	Volume.	Proof Spirit.												
					p.c.	p.c.	p. c.	p. c.	p. c.				p. c.	p. c.	p. c.		p. c.		
Nova Scotia	54301	1·0056	0·98977	1·0158	6·02	7 51	13·16	16·08	4·08	2·75	74·64	0·32	0 292	0·656	0 096	negative	.....	54301	
	54302	0 9997	0·99060	1·0091	5 51	6·87	12·04	13·37	2·35	2·26	82 41	0·36	0·256	0·390	0·056	"	.....	54302	Extractive low.
	54303	1·0091	0 99070	1·0184	5·44	6·78	11·89	15·65	4·77	2 66	69·53	0·29	0·356	0·484	0·066	"	.....	54303	
	54304	1·0075	0 99074	1·0168	5·41	6·75	11·84	15·16	4·34	2·58	71·85	0·34	0·270	0 646	0·089	"	.....	54304	
	54305	1·0055	0·99270	1 0128	4·19	5·24	9 18	11·68	3·30	1·94	71·73	0·23	0 202	0·528	0·072	salicylic	.....	54305	Extractive slightly low.
New Brunswick	50362	1·0065	0 99292	1·0145	4 61	5·77	10 10	12·96	3·74	2·16	71·1	0·54	0·280	0·562	0·063	negative	.....	50362	
	50363	1 0078	0·99074	1·0171	5·41	6·75	11·84	15·24	4·42	2·59	71·01	0·53	0 320	0·644	0·068	"	.....	50363	
	50364	1·0088	0·99346	1·0153	3·73	4·66	8·23	11 41	3·95	1·89	65·37	0·35	0·250	0 554	0·077	"	.....	50364	
	50365	1·0111	0·99245	1 0186	4·34	5·43	9·52	13·50	4·82	2·25	64·30	0·30	0·334	0·686	0·066	"	0·0063	50365	
	50366	1·0064	0·98956	1·0168	6·17	7·69	13·48	16·68	4·34	2 84	73·98	0·38	0·334	0·534	0·080	"	.....	50366	
Quebec	56144	1·0117	0·99257	1·0191	4 27	5·34	9·35	13·50	4·96	2·25	63·27	0·47	0 222	0 592	0·060	salicylic	.....	56144	
	56145	1·0120	0·99271	1·0193	4·18	5·23	9·17	13·37	5·01	2 22	62 52	0·36	0·253	0·360	0·051	"	.....	56145	
	56146	1 0108	0·99246	1·0183	4·33	5·42	9·50	13·40	4·74	2·24	64·61	0·39	0·264	0·630	0·080	"	.....	56146	
	56147	1·0133	0·99303	1·0203	3·98	4·98	8·73	13·24	5·28	2·21	60·12	0·43	0·206	0·522	0 069	"	.....	56147	
	56148	1·0119	0·99263	1·0193	4·23	5·30	9·27	13·47	5·01	2·25	62·81	0·41	0·262	0 618	0·080	"	.....	56148	
Three Rivers	59726	1·0119	0·99307	1·0188	3 96	4·95	8·68	12 80	4 88	2·13	61 87	0·35	0·296	0 636	0·079	"	.....	59726	
	59727	1·0053	0 99267	1·0126	4·21	5·26	9·22	11·67	3·25	1·94	72·14	0·31	0·228	0·666	0·060	negative	.....	59727	Extractive slightly low.
	59728	1·0066	0·99218	1·0144	4·51	5·65	9 89	12 74	3·72	2·12	70 79	0·27	0·208	0·568	0·063	"	.....	59728	
	59729	1·0038	0·99235	1·0114	4·41	5 51	9 65	11·76	2·94	1·95	74 99	0·40	0·216	0·436	0·055	"	.....	59729	Extactive low.
	59730	1·0049	0·99303	1 0119	4·01	5 01	8·74	11 09	3·07	1·83	72 35	0 44	0 244	0·540	0 066	"	0·0060	59730	" "
Eastern Townships	1729	1·0051	0 99285	1·0122	4 09	5·12	8·97	11·33	3·15	1·87	72·21	0·42	0·216	0·426	0 058	"	0·0082	1729	" "
	1730	1·0067	0·99374	1·0130	3·57	4·47	7·86	10·49	3·35	1·72	66·06	0 20	0·207	0 374	0·055	"	.....	1730	Extractive slightly low.
	1731	1·0094	0·99151	1·0179	4·94	6·17	10·81	14·51	4 63	2·44	68·10	0·30	0·237	0·644	0·080	salicylic	0 0047	1731	
	1732	1·0055	0·99286	1·0126	4 09	5·12	8·97	11·43	3 25	1·89	71·58	0·20	0·199	0 402	0·057	"	.....	1732	" "
	1733	1·0181	0·99247	1·0256	4 33	5·42	9·36	15·27	6·61	2·57	75·37	0·28	0·210	0·472	0·060	"	.....	1733	
Montreal	58616	1·0091	0·99368	1·0154	3·60	4 50	7·90	11·17	3·97	1·85	73·43	0·29	0·216	0 480	0 060	"	.....	58616	
	58617	1·0091	0·99203	1·0171	4 60	5 76	10·09	13·62	4·42	2 28	67 56	0·34	0·242	0·632	0·074	"	0 0085	58617	
	58618	1·0098	0 99306	1·0167	3 96	4·96	8·69	12·23	4·31	2·03	64 76	0·26	0·220	0 482	0·059	"	0 0041	58618	
	58619	1 0099	0·99207	1·0178	4 58	5·73	10·02	13·77	4·61	2 30	66 51	0·45	0·248	0·558	0·066	negative	0 0017	58619	
	58620	1·0146	0·99472	1·0199	2 99	3·75	6·56	11·15	5·17	1·83	53·61	0·35	0·192	0·420	0·060	"	.....	58620	

Valleyfield	58656	1·0116	0·99164	1·0200	4·85	6·07	10·62	14·90	5 20	2·51	65·10	0·50	0·341	0·396	0·049	"		58656	
	58657	1·0097	0·99335	1·0163	3·79	4·74	8·32	11·79	4·21	1·96	64·28	0·41	0·234	0·480	0·059	salicylic		58657	
	58658	1·0046	0·99293	1·0117	4·04	5·06	8 85	11·10	3·02	1·82	72 80	0·41	0·224	0·446	0 047	negative		58658	Extractive low.
	58659	1 0043	0·99261	1·0117	4·24	5·31	9·30	11·50	3 02	1·91	73 74	0·42	0 244	0 462	0·051	"		58659	" "
	58660	1 0045	0·99265	1·0118	4·22	5·28	9 24	11·49	3·05	1·90	73·45	0·42	0·240	0·474	0·051	"		58660	" "
Ottawa	42895	1 0093	0 99162	1·0177	1 86	6·08	10·64	14·30	4 58	2·40	67·98	0·34	0·260	0·836	0·096	salicylic	0·00110	42895	
	42896	1·0103	0·99269	1·0176	4·20	5 25	9 19	12 95	4 55	2·15	64·86	0·34	0·256	0 632	0 067	"	0·0060	42896	
	42897	1·0075	0·99479	1·0127	2·95	3·70	6·48	9·18	3·28	1·49	64·28	0·41	0·157	0·344	0·057	negative	0·0066	42897	Extractive slightly low.
	42898	1·0128	0·99226	1·0205	4·46	5·58	9·78	14 25	5·33	2·38	62·61	0·41	0·272	0·500	0 059	"	0·0126	42898	
	42899	1·0044	0·99349	1·0109	3 71	4·64	8·14	10·24	2·82	1·68	72 46	0·23	0·228	0·502	0·066	"		42899	Extractive low.
Kingston	60026	1·0168	0·99374	1·0231	3·57	4·46	7·82	13·11	5·97	2·18	54·46	0·54	0·320	0·586	0 068	"	0·0063	60026	
	60027	1·0177	0 99325	1·0244	3·85	4·82	8·45	13 99	6·29	2·34	55·03	0·32	0·256	0·646	0·064	"	0·0055	60027	
	60028	1·0108	0 99240	1 0184	1·37	5·47	9·58	13·51	4·77	2·25	64·71	0·54	0·368	0·731	0 087	"	0·0038	60028	
	60029	1·0125	0·99281	1·0197	4·11	5 15	9·03	13 34	5·12	2·22	61·62	0·41	0·216	0·536	0 064	"		60029	
	60030	1 0153	0·99108	1·0212	3 36	4 21	7·38	12·22	5·50	2 02	54·99	0·63	0·304	0·550	0·056	"		60030	
Toronto	57484	1·0126	0·99310	1·0195	3·94	4·93	8·64	12·94	5·06	2·15	65·88	0·65	0·308	0·494	0 057	"		57484	
	57485	1·0136	0·99201	1 0215	4·57	5·73	9·89	14 71	5·57	2·47	62·13	0·63	0·316	0 682	0 074	"	0·0074	57485	
	57486	1·0181	0 99307	1 0250	3·96	4·99	8·68	14·36	6·44	2·41	55·16	0·54	0·256	0·624	0·061	"	0·0074	57486	
	57487	1·0107	0·99280	1·0179	4·12	5·16	9·01	12·87	4·63	2·14	64·01	0·40	0·208	0·552	0·069	"		57487	
	57488	1·0056	0·99238	1·0132	4·39	5·49	9·61	12·19	3·41	2·03	72·07	0·37	0·240	0·412	0·052	"		57488	Extractive slightly low.
Hamilton	50865	1·0115	0·99218	1·0193	4·51	5·65	9·89	14·03	5·01	2·34	64 30	0 47	0·337	0·516	0 052	"	0·0173	50865	
	50866	1 0177	0·99288	1·0248	4·07	5·10	8·93	14·53	6·39	2·43	56·02	0·43	0·308	0 556	0·076	"	0 0071	50866	
	50867	1·0124	0·99186	1 0205	4·71	5·89	10·32	14·75	5 33	2·48	63·87	0·50	0 308	0·690	0 071	(export). salicylic	0 0011	50867	
	50868	1·0203	0 99361	1·0267	3·64	4·55	7·99	14·19	6·91	2·37	51·39	0 41	0·308	0·564	0·074	"	0 0074	50868	
	50869	1·0162	0·99357	1 0226	3·67	4·58	8·04	13·18	5·84	2·19	55·69	0·50	0·314	0·568	0·066	negative	0·0071	50869	
Windsor	54412	1 0093	0·99200	1·0173	4·62	5 78	10·13	13.71	4·47	2·30	67·41	0·30	0 328	0·746	0·083	"	0 0030	54412	
	54414	1·0185	0·99318	1·0253	3·90	4·87	8·54	14·32	6·52	2 39	54·48	0·30	0·256	0·634	0·061	"	0 0002	54414	
	54415	1·0155	0·99468	1 0208	3·01	3·70	6·49	11·42	5·40	1·88	52·71	0·54	0·160	0·722	0·078	"		54415	
	54421	1·0103	0·99246	1·0178	4·33	5·42	9 50	13·27	4·61	2·21	65·25	0·41	0 352	0·546	0·054	"	0·0170	54421	
	54422	1·0135	0·99440	1·0191	3·18	3·98	6·97	11·32	4 96	1·86	56·18	0·41	0 168	0·582	0·078	"		54422	
Manitoba	48941	1·0101	0·99191	1·0182	4·66	5 83	10·21	14·03	4·71	2·34	66·43	0·25	0·233	0·476	0 058	"		48941	
	48942	1·0093	0·99227	1·0170	4·46	5·58	9·76	13·31	4·39	2·22	67·02	0·54	0·263	0·606	0·065	"		48942	
	48943	1·0100	0·99124	1·0188	5 10	6·37	11·16	15·08	4·88	2·55	67·66	0 34	0·310	0·514	0·056	"		48943	
	48944	1·0092	0·99227	1·0169	4 46	5·58	9·76	13·28	4·36	2·21	67·17	0·21	0·288	0·532	0 058	salicylic		48944	
	48945	1·0138	0·99186	1·0219	1·72	5·89	10·32	15 11	5·67	2·54	62·47	0·21	0·199	0·500	0·060	negative		48945	
Rocky Mountains	49961	1·0160	0·99439	1·0216	3·19	3·99	6·98	11·98	5·60	1 98	53·25	0·20	0·174	0 628	0·059	"		49961	
	49962	1·0124	0·99366	1·0187	3·61	4 52	7·92	12 07	4·85	2 00	59·82	0·38	0 176	0·498	0·071	"		49962	
	49987	1·0121	0·99467	1 0174	3·02	3·78	6·62	10·54	4·50	1·73	57·29	0·54	0·170	0·424	0·057	"		49987	
	49988	1·0099	0·99474	1·0152	2·98	3·73	6·54	9·88	3·92	1·62	60·32	0·31	0·138	0·288	0·061	"		49988	
	49989	1·0135	0·99374	1·0198	3·57	4·46	7·82	12·29	5·15	2 03	58·11	0 28	0·180	0·492	0·071	"		49989	
Victoria	57641	1·0043	0·99179	1·0125	4·76	5 95	10·41	12·75	3·23	2·13	74·67	0·36	0·272	0·354	0.058	"		57641	Extractive slightly low.
	57642	1·0112	0·99410	1·0171	3·35	4·20	7·36	11 12	4·42	1·84	60·26	0·24	0·174	0·514	0 070	"		57642	
	57645	1·0080	0·98954	1·0185	6·18	7·71	13·51	17·15	4·79	2·92	72·07	0·35	0·356	0 562	0·062	"		57645	
	57646	1·0089	0·99309	1·0158	3·95	4·94	8·67	11·98	4·08	1·99	65·91	0·35	0·213	0·286	0·040	"	0·0025	57646	
	57647	1·0087	0·98956	1·0191	6·17	7·69	13·18	17·30	4·96	2·94	71·34	0·36	0·340	0·552	0·066	"		57647	

Name.	Specific Gravity at 15·5°c.			Alcohol, p.c.			Solids in Original Wort.	Solids in Beer.	Malt used. Pounds per Gallon.	Degree of Fermentation.	Total Acidity Grams as Lactic per 100cc.	Ash.	Proteins.	P_2O_5.	Salicylic Reaction.	SO_2.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Beer.	Distillate.	Residue.	Weight.	Volume.	Proof Spirit.												
				p.c.	p.c.	p.c.	p.c.	p.c.				p.c.	p.c.	p.c.		p.c.		
Bass	1·0080	0·98954	1·0185	6·18	7·71	13·51	17·15	4·79	2·92	72·07	0·35	0·356	0·562	0·062	negative	....	57645	
"	1·0087	0·98956	1·0191	6·17	7·69	13·48	17·30	4·95	2·94	71·34	0·36	0·340	0·552	0·066	"	.....	57647	
"	1·0064	0·98956	1·0168	6·17	7·69	13·48	16·68	4·34	2·84	73·98	0·38	0·334	0·534	0·080	"	.....	50366	
"	1·0100	0·99124	1·0188	5·10	6·37	11·16	15·08	4·88	2·55	67·66	0·34	0·310	0·514	0·056	"	.....	48943	
"	1·0091	0·99070	1·0184	5·44	6·78	11·89	15·65	4·74	2·66	69·53	0·29	0·356	0·484	0·066	"	.....	54303	
Boswell	1·0108	0·99246	1·0183	4·33	5·42	9·50	13·40	4·77	2·24	64·61	0·39	0·264	0·630	0·080	salicylic	....	56146	
"	1·0119	0·99263	1·0193	4·23	5·30	9·27	13·47	5·01	2·25	62·81	0·41	0·262	0·618	0·080	"	.....	56148	
Brading	1·0075	0·99479	1·0127	2·95	3·70	6·48	9·18	3·28	1·49	64·28	0·41	0·157	0·344	0·057	negative	0·0066	42897	Extractive slightly low.
Brandon	1·0138	0·99486	1·0219	4·72	5·89	10·32	15·11	5·67	2·51	62·47	0·21	0·199	0·500	0·060	"	.....	18945	
Canadian	1·0098	0·99306	1·0167	3·96	4·96	8·69	12·23	4·31	2·03	64·76	0·26	0·220	0·482	0·059	salicylic	0·0041	58618	
Carlings	1·0103	0·99246	1·0178	4.33	5·42	9·50	13·27	4·61	2.21	65·25	0·41	0·352	0·546	0·054	negative	0·0170	54421	
"	1·0115	0·99218	1·0193	4·51	5·65	9·89	14·03	5·01	2·34	64·30	0·47	0·337	0·516	0.052	"	0·0173	50865	
"	1·0128	0·99226	1·0205	4·46	5·58	9·78	14·25	5·33	2·38	62·61	0·41	0·272	0·500	0·059	"	0·0126	42898	
Champlain	1·0120	0·99271	1·0193	4·18	5·23	9·17	13·37	5·01	2·22	62·52	0·36	0·253	0·360	0·051	salicylic	.....	56145	
Cincinatti Cream	1·0155	0·99468	1·0208	3·01	3·70	6·49	11·42	5·40	1·88	52·71	0·54	0·160	0·722	0·078	negative	.....	54415	
Copland	1·0177	0·99325	1·0244	3·85	4·82	8·45	13·99	6·29	2·34	55·03	0·32	0·256	0·646	0·064	"	0·0055	60027	
"	1·0185	0·99318	1·0253	3·90	4·87	8·54	14·32	6·52	2·39	54·48	0·30	0·256	0·634	0·061	"	0·0092	54414	
"	1·0181	0·99307	1·0250	3·96	4·99	8·68	14·36	6·44	2·41	55·16	0·54	0·256	0·624	0·061	"	0·0074	57486	
Cornwall	1·0055	0·99286	1·0126	4·09	5·12	8·97	11·43	3·25	1·89	71·58	0·20	0·199	0·402	0·057	salicylic	.....	1732	Extractive slightly low
Cosgrave	1·0126	0·99310	1·0195	3·94	4·93	8·64	12·94	5·06	2·15	60·88	0·65	0·308	0·494	0·057	negative	.....	57484	
Dawes	1·0119	0·99307	1·0188	3·96	1·95	8·68	12·80	4·88	2·13	61·87	0·35	0·296	0·636	0·079	salicylic	.....	59726	
"	1·0103	0·99269	1·0176	4·20	5·25	9·19	12·95	4·55	2·15	64·86	0·34	0·256	0·632	0·067	"	0·0060	42896	
"	1·0091	0·99368	1·0154	3·60	4·50	7·90	11·17	3·97	1·85	73·43	0·29	0·216	0·480	0·060	"	.....	58616	
"	1·0097	0·99335	1·0163	3·79	4·74	8·32	11·79	4·21	1·96	64·28	0·41	0·234	0·480	0·059	"	.....	58657	
"	1·0181	0·99247	1·0256	4·33	5·42	9·36	15·27	6·61	2·57	75·37	0·28	0·210	0·472	0·060	"	.....	1733	
Dom. B. Co.	1·0124	0·99186	1·0205	4·71	5·89	10·32	14·75	5·33	2·48	63·87	0·50	0·308	0·690	0·071	"	0·0011	50867	
"	1·0136	0·99201	1·0215	4·57	5·73	9·89	14·71	5·57	2·47	62·13	0·63	0·316	0·682	0·074	(export). negative	0·0074	57485	
Dow & Co.	1·0093	0·99162	1·0177	4·86	6·08	10·64	14·30	4·58	2·40	67·98	0·34	0·260	0·836	0·096	salicylic	0·0110	42895	
"	1·0094	0·99151	1·0179	4·94	6·17	10·81	14·51	4·63	2·44	68.10	0·30	0·237	0·644	0·080	"	0·0047	1731	
"	1·0091	0·99203	1·0171	4·60	5·76	10·09	13·62	4·42	2·28	67·56	0·34	0·242	0·632	0·074	"	0·0085	58617	

Drewry	1·0101	0·99194	1·0182	4·66	5·83	10·21	14·03	4·71	2·34	66·43	0·25	0·233	0·476	0·058	negative		48941			
Ekers	1·0066	0·99218	1·0141	4·51	5·65	9·89	12·74	3·72	2·12	70.79	0·27	0·208	0·568	0·063	"		59728			
Elk Valley	1·0121	0·99467	1·0174	3·02	3·78	6·62	10·54	4·50	1·73	57·29	0·54	0·170	0·424	0·057	"		49987			
Empire	1·0092	0·99227	1·0169	4·46	5·58	9·76	13·28	4·36	2·21	67·17	0·21	0·288	0·532	0·058	salicylic		48944			
Fernie	1·0160	0·99459	1·0216	3·19	3·99	6·98	11·98	5·60	1·98	53·25	0·20	0·174	0·628	0·059	negative		49961			
Fisher Bros	1·0108	0·99240	1·0184	4·37	5·47	9·58	13·51	4·77	2·25	64·71	0·54	0·368	0·731	0·087	"	0·0038	60028			
Gold Lion	1·0053	0·99267	1·0126	4·21	5·26	9·22	11·67	3·25	1·94	72·14	0·31	0·228	0·666	0·060	"		59727	Extractive slightly low		
"	1·0045	0·99265	1·0118	4·22	5·28	9·24	11·49	3·05	1·90	73·45	0·42	0·240	0·474	0·051	"		58660	"	low.	
"	1·0043	0·99261	1·0117	4·24	5·31	9·30	11·50	3·62	1·91	73·74	0·42	0·244	0·462	0·051	"		58659	"	"	
"	1·0046	0·99293	1·0117	4·04	5·06	8·85	11·10	3·02	1·82	72·80	0·41	0·221	0·446	0·047	"		58658	"	"	
Grant	1·0203	0·99361	1·0267	3·64	4·55	7·99	14·19	6·91	2·37	54·39	0·41	0·308	0·564	0·074	negative	0·0074	50868			
"	1·0177	0·99288	1·0248	4·07	5·10	8·93	14·53	6·39	2·43	56·02	0·43	0·308	0·556	0·076	"	0·0071	50866			
Howards	1·0056	0·98977	1·0158	6·02	7·51	13·16	16·08	4·08	2·75	74·64	0·32	0·292	0·656	0·096	"		54301			
Independent	1·0146	0·99472	1·0199	2·99	3·75	6·56	11·15	5·17	1·83	53·64	0·35	0·192	0·420	0·060	"		58620			
Keith	1·0075	0·90074	1·0168	5·41	6·75	11·84	15·16	4·34	2·58	71·85	0·34	0·270	0·646	0·089	"		54304			
"	1·0088	0·99346	1·0153	3·73	4·66	8·23	11·41	3·95	1·89	65·37	0·35	0·250	0·554	0·077	"		50364			
Labatt	1·0093	0·99200	1·0173	4·62	5·78	10·13	13·71	4·47	2·30	67·41	0·30	0·328	0·746	0·083	"	0·0030	54412			
"	1·0141	0·99215	1·0186	4·34	5·43	9·52	13·50	4·82	2·25	64·30	0·30	0·334	0·686	0·066	"	0·0063	50365			
"	1·0168	0·99374	1·0231	3·57	4·46	7·82	13·11	5·97	2·18	54·46	0·54	0·320	0·586	0·068	"	0·0063	60026			
"	1·0162	0·99357	1·0226	3·67	4·58	8·04	13·18	5·84	2·19	55·69	0·50	0·314	0·568	0·066	"	0·0071	50869			
Le Roi	1·0135	0·99374	1·0198	3·57	4·46	7·82	12·29	5·15	2·03	58·11	0·28	0·180	0·492	0·071	"		49989			
McCarthy	1·0116	0·99164	1·0200	4·85	6·07	10·62	14·90	5·20	2·51	65·10	0·50	0·341	0·396	0·049	"		58656			
McDonagh & Shea	1·0093	0·99227	1·0170	4·46	5·58	9·76	13·31	4·39	2·22	67·02	0·54	0·263	0·666	0·065	"		48942			
McEwan	0·9997	0·99060	1·0091	5·51	6·87	12·01	13·37	2·35	2·26	82·41	0·36	0·256	0·390	0·056	"		54302	Extractive low.		
Meux	1·0089	0·99309	1·0158	3·95	4·94	8·67	11·98	4·08	1·99	65·94	0·35	0·213	0·286	0·040	"	0·0025	57646			
Molsons	1·0099	0·99207	1·0178	4·58	5·73	10·02	13·77	4·61	2·30	66·51	0·45	0·248	0·558	0·066	"	0·0047	58619			
"	1·0049	0·99303	1·0119	4·01	5·01	8·74	11·09	3·07	1·83	72·35	0·44	0·244	0·540	0·066	"	0·0060	59730	"	"	
National	1·0117	0·99257	1·0191	4·27	5·34	9·35	13·50	4·96	2·25	63·27	0·47	0·222	0·592	0·060	salicylic		56144			
"	1·0133	0·99303	1·0203	3·98	4·98	8·73	13·24	5·28	2·21	60·12	0·43	0·206	0·522	0·069	"		56147			
Nelson	1·0124	0·99366	1·0187	3·61	4·52	7·92	12·07	4·85	2·00	59·82	0·38	0·176	0·498	0·071	negative		49962			
Oland	1·0055	0·99270	1·0128	4·19	5·24	9·18	11·68	3·30	1·94	71·73	0·23	0·202	0·528	0·072	salicylic		54305	"	slightly low	
O'Keefe	1·0107	0·99280	1·0179	4·12	5·16	9·04	12·87	4·63	2·14	64·01	0·40	0·208	0·552	0·069	negative		57487			
"	1·0125	0·99281	1·0197	4·11	5·15	9·03	13·34	5·12	2·22	61·62	0·41	0·216	0·536	0·064	"		60029			
Ready	1·0078	0·99074	1·0174	5·41	6·75	11·84	15·24	4·42	2·59	71·01	0·53	0·320	0·644	0·068	"		50363			
Reinhardt	1·0044	0·99349	1·0109	3·71	4·64	8·14	10·21	2·82	1·68	72·46	0·23	0·228	0·502	0·066	"		42899	"	ow.	
Roy	1·0153	0·99408	1·0212	3·36	4·21	7·38	12·22	5·50	2·02	54·99	0·63	0·304	0·550	0·056	"		60030			
Silver Creek ((Guelph)	1·0056	0·99238	1·0132	4·39	5·49	9·61	12·19	3·41	2·03	72·07	0·37	0·240	0·412	0·052	"		57488	"	slightly low	
Silver Spring(Sherbrooke)	1·0038	0·99235	1·0114	4·41	5·51	9·65	11·76	2·94	1·95	74·99	0·40	0·216	0·436	0·055	"		59729	"	low.	
" "	1·0051	0·99285	1·0122	4·09	5·12	8·97	11·33	3·15	1·87	72·21	0·42	0·216	0·426	0·058	"	0·0082	1729	"	"	
" "	1·0067	0·99374	1·0130	3·57	4·47	7·86	10·49	3·35	1·72	66·06	0·20	0·207	0·374	0·055	"		1730	"	slightly low	
Simeon Jones	1·0065	0·99202	1·0145	4·61	5·77	10·10	12·96	3·74	2·16	71·12	0·54	0·280	0·562	0·063	"		50362			
Tate	1·0043	0·99179	1·0125	4·76	5·95	10·41	12·75	3·23	2·13	74·67	0·36	0·272	0·354	0·058	"		57641	"	"	
Trail	1·0099	0·99474	1·0152	2·98	3·73	6·54	9·88	3·92	1·62	60·32	0·31	0·138	0·288	0·061	"		49988			
Victoria	1·0112	0·99410	1·0171	3·35	4·20	7·36	11·12	4·42	1·84	60·26	0·24	0·174	0·514	0·070	"		57642			
Walkerville (Lager Beer)	1·0135	0·99440	1·0191	3·18	3·98	6·97	11·32	4·96	1·86	56·18	0·41	0·168	0·582	0·078	"		54422			

APPENDIX Z2.

BULLETIN No. 284—ARSENATE OF LEAD

OTTAWA, March 27, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister, Inland Revenue.

SIR,—I have the honour to submit herewith a report upon eighty-two samples purchased as Arsenate of Lead in June, July and August of last year.

Consequent upon many complaints regarding the character of this article a offered on the Canadian markets, a collection of 26 samples was made in 1910 (see Bulletin No. 205).

Upon the work then done, and further study of the subject, the following standards were recommended and are incorporated into the fourth schedule to the Adulteration Act, by an amendment dated June 6, 1913.

ARSENATE OF LEAD.—1. An insecticide, containing at least 48 per cent of its weight of solids as a residue when dried to constant weight on the steam bath; and these solids must essentially consist of the pentoxide of arsenic in combination with the monoxide of lead. Water-soluble arsenic (expressed as the tri-oxide of arsenic) must not be present to more than one per cent of the weight of the insecticide as sold.

2. Arsenate of lead shall be regarded as adulterated if any substance has been mixed or packed with it so as to reduce, lower or injuriously affect its quality or strength.

The results obtained by analysis of the 82 samples now reported must be judged in accordance with the legal standards quoted.

The great majority of these samples are sold in the form of a paste, this being the form in which the article is most readily available for use as a spray. In order that the article may not dry out on the shelves of the dealer, it is usually put up in glass or tin containers, and hermetically sealed. Forty-one (41) samples of this collection were furnished to the analyst in the original container, and these are specified in the table. The remainder were furnished in glass bottles or in tins which had been filled by our inspectors from the larger packages of the dealer. Owing to the great difficulty of sampling a paste of this kind, some uncertainty attaches to the determination of the water content in these cases; and where the containers used by our inspectors have been imperfectly closed, more or less loss of moisture occurs during storage in the interval between collection and analysis. Indeed many of the samples, as packed by the manufacturer, showed clearly that loss of water had occurred through imperfect sealing. Some of these, put up in tin containers, showed the tin rusted quite through, and the contents dry. This was particularly the case with sample 54148. In spite of these imperfections, a sufficient number of samples, (more than 30) were received in such good condition as to justify the conclusion that, so far as content of solid matter is concerned, the manufacturers of Arsenate of Lead endeavour to meet the requirements of the legal definition.

Water soluble arsenic varies considerably, but in no case does it reach anything like the permitted limit.

With regard to the content of Arsenate of Lead in Arsenic Acid and Oxide of Lead, which are the active ingredients of this insecticide, the following work reported by the New Jersey Experiment Station (Bulletin No. 222) is important. "Arsenate of Lead is prepared by the action of Lead Acetate or Lead Nitrate on Di-Sodium Arsenate. Using pure chemicals the product prepared from the Acetate contains theoretically 74·40 per cent of Oxide of Lead and 25·60 per cent of Arsenic Anhydride. At a conference of manufacturers and entomologists a standard agreed upon was that Lead Arsenate should contain not over 50 per cent water, and not less than 12·5 per cent. Arsenic Anhydride Fifteen samples of the commercial article gave the following results, calculated to a dry basis :—

Arsenic Anhydride	17·94 to 33·30 per cent.
Lead Oxide	62·48 to 70 63 "

The great difference noted between theoretical composition and the composition of the manufactured article is due to the formation of basic salts whose amount and character vary with the method of manufacture, the mixtures of salts at different stages of the process determining (along with temperature and other conditions) the establishing of equilibria, which change with every change in the conditioning. It will be noted that the Canadian article, shows a greater uniformity and a nearer approximation to theoretical requirements than the samples analyzed at the New Jersey Station.

The results now placed on record indicate that this article, as offered for sale in Canada, is of very satisfactory character.

I beg to recommend publication of this report as Bulletin No. 284.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 284—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1913.							
July 8	Arsenate of lead.	54142	National Drug Co., Halifax, N.S.	3 lbs.	65	Unknown	N. D. & C. Co. Montreal.
" 15	"	54143	J. A. Craig, Yarmouth, N.S.	3 "	90	Canada Paint Co., Montreal.	Canadian Drug Co., St. John, N.B.
" 16	"	54144	T. L. Harvey, Wolfville, N.S.	1½ "	Nil	Vendor	
" 16	"	54145	W. W Rockwell, Kentville, N.S.	3 "	25	Corona Chem. Co., Newwark, N J.	Manufacturers.
" 17	"	54146	Wilcox Bros., Windsor, N S.	1½ "	20	Canada Paint Co., Montreal.	"
" 17	"	54147	F. H. Manning, Falmouth, N.S.	1½ "	20	Merrimac Chem. Co., Boston.	Capt. Allen, Kentville, N. S.
"	"	54148	Halifax Seed Co., Halifax, N S.	3 "	75	May & Baker, London, Eng.	E. B. Sutcliffe, Halifax, N.S.
" 24	"	54149	E. G. Moxon, Truro, N. S.	1 "	25	Chemical Laboratories, Ltd.	N. D. & C. Co., Halifax, N.S.
" 25	"	54150	G. J. Kinley, Lunenburg, N.S.	3 "	75	"	"
" 28	"	54151	Brown Bros., Halifax, N.S.	3 "	75	N. D. & C. Co., Halifax.	"
DISTRICT OF NEW BRUNSWICK—							
June 20	Arsenate of lead.	50652	The Nat. Drug & Chem. Co., Ltd., St. John, N.B.	3 lbs.	75	Dow Chem. Co., Midland, Mich.	
" 24	"	50653	W. H. Thorne Co., Ltd., St. John, N.B.	3 "	75	The Grasselli Chem. Co., Cleveland, Ohio.	
" 25	"	50654	P. Nase & Son, St. John, N.B.	3 "	75	The Canada Paint Co., Ltd., Montreal	
" 26	"	50655	The Canadian Drug Co., Ltd., St. John, N.B.	3 "	75	"	
July 8	"	50656	J. S. Neill & Son, Fredericton, N.B.	3 "	75	"	
" 8	"	50657	R. H Mack, St. John, N.B.	3 "	75		The Nat. Drug & Chem. Co., Ltd., St. John, N.B
" 11	"	50658	Wade Drug Co., Perth, N.B.	3 "	75	The Canada Paint Co., Montreal.	
" 24	"	50659	Dickison & Troy, Newcastle, N.B.	3 "	75		Nat. Drug & Chem. Co., Ltd., St. John, N.B.
" 25	"	50660	J. D. B. F. Mackenzie, Chatham, N.B.	3 "	95	Sherwin-Williams Co., Ltd., Montreal	

SESSIONAL PAPER No. 14

ARSENATE OF LEAD.

Inspector's Report. (Is not and expression of Opinion.)	Moisture in Sample as received.	Results of Analysis. Results Calculated on the Dry Sample. Total Arsenic as As_2O_5.	Total Lead as Pb.O.	Water Soluble Solids.	Water Soluble Arsenic as As_2O_5.	Water Soluble Lead as Pb. O.	Water Soluble Impurities.	Percentage Weights in Original Sample. Arsenic (As_2O_5)	Lead (Pb.O.)	Analysis made on original package.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
....	41·27	28·75	66·59	1·5	0·12	0·00	1·38	16·87	39 11	No.	54142	
....	36·16	27·31	71·56	1·0	0.12	0·36	0·52	17·44	45 68	Yes.	54143	
... .	44·48	30 19	64·38	6·0	0 72	0·72	4·56	16·75	35 75	No.	54144	
Labelled Powdered Arsenate of Lead	0·20	31·62	65·30	0·5	0 12	0·18	0·20	.....	.. ..	No.	54145	
....	28·08	30·19	67·14	2·0	0 12	0·18	1·70	21·71	48 29	No.	54146	
Labelled Swift's Arsenate of Lead	35·54	28·75	69 35	2·0	0 12	0 18	1·70	18·53	44 70	No.	54147	
... .	0 80	25·88	69·53	2·0	0·12	0·00	1·88	.. ..	..	Yes.	54148	Tin container rusted through
"Vanco" Brand..	42 52	31·90	61·26	1·5	0 12	0·00	1·38	18·34	35·21	Yes.	51149	
" ..	45·05	28·75	63·98	1·5	0 12	0 18	1·20	15·80	37·90	Yes.	54150	
... .	44·50	31·07	66·22	2·0	0 24	0·00	1·76	17·25	36·75	No.	54151	
J. C. FERGUSON, INSPECTOR.												
.....	49·16	31 62	65·49	1·0	0 21	0 18	0·58	16·07	33·30	Yes.	50652	
. .....	43 65	27·31	69 90	1·0	0 24	0 18	1·58	15·39	39·39	Yes.	50653	
... .	47·05	25 88	71·92	1·5	0 12	0·18	1·20	13·71	38·08	Yes.	50654	
Specially prepared for C. P. Co., Ltd.	43·64	25·15	72 11	2·0	0 12	0·36	1·52	14·13	40·64	Yes.	50655	
....	47·80	23·00	72·66	3·0	0 12	0·36	2·52	11·96	37·86	Yes.	50656	
"Vanco" Brand..	44·70	27·31	69·13	1	0 0	12	0·00	0 88	15·11	38·23	Yes.	50657
Neutral Arsenate of Lead.	47·96	25 88	71·00	3 5	0·48	0·36	2 66	13·47	36·95	No.	50658	
Product of Canada Paint Co., Montreal.	39·55	26·83	68·24	1·5	0 12	0·00	1·38	16·22	41·25	Yes.	50659	
....	38·72	27·31	71·00	1	0 0	12	0·36	0·52	16 74	43·51	No.	50660

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF QUEBEC—	
1913.							
June 23	Arsenate of Lead.	37075	J. B. Giroux, 385 rue St Joseph, Quebec.	3 box's	50	Unknown	J. E. Livernois, Quebec.
" 30	"	37076	L. E. Martel, 54 rue St. Joseph, Quebec.	¾ lb...	45	Canada Paint Ltd., Montreal.	Lymans, Ltd. Montreal.
July 2	"	37077	J. E. Livernois, Coulard, St. Jean, Que.	3 " ..	75	" " ..	Mfrs....
" 2	"	37078	Dr. Ed Morin, 113 Cote Lamontagne, Q.	3 " ..	75	Lyman Knox, Montreal.	"
						DISTRICT OF THREE RIVERS	
June 24	Arsenate of Lead.	58957	Williams, Three Rivers	6 oz...	30	Nat. D. & C. Co., Montreal.	
" 25	"	58958	J. A. Peltier, Three Rivers.	6 " ..	30	" "	
						DISTRICT OF EASTERN TOWNSHIPS—	
July 28	Arsenate of Lead.	1645	H. Neven, St. Césaire.	3 box's	1 20	The Canada Paint Co., Ltd., Montreal.	
" 30	"	1646	P. H. Hébert, St-Hilaire.	1 jar.	75	The Sherwin-Williams Co., Ltd., Montreal.	
						DISTRICT OF MONTREAL —	
June 24	Arsenate of Lead.	58701	Dupuy et Ferguson, Jacques Square. Montreal.	3 pks.	1.05	Merrimac Chem. Co., Boston.	
" 24	"	58702	H. L. Déry, 21 Notre Dame east, Montreal.	3 " ..	1.05	Canada Paint Co	
" 26	"	58703	Wm. Rennie & Co., Ltd., 109 McGill st., Montreal.	3 " ..	1.50	The Grasselli Co., Ltd., Hamilton. Ont.	
Aug. 21	"	58704	The Canada Paint Co., William st., Montreal.	3 lbs .	75	Vendors	
" 22	"	58705	Nat. Drug & Chem. Co., 34 St. Gabriel st., Montreal.	3 " ..	57		Dow Chem. Co., Midland, Mich.
" 22	"	58706	The Lyman Knox Co., 374 St. Paul st., Montreal.	3 " ..	75	Canada Paint Co....	
" 27	"	58707	Lymans, Ltd., 474 St. Paul st., Montreal.	3 " ..	60		Dow Chem. Co., Midland, Mich.
" 28	"	58708	The Dr. Leduc Drug Co., Chaboillez square, Montreal.	3 " ..	9		Nat. Drug & Chem. Co.

SESSIONAL PAPER No. 14

ARSENATE OF LEAD.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture in Sample as Received.	Results Calculated on the Dry Sample.						Percentage Weights in Original Sample.		Analysis made on Original Sample.		
		Total Arsenic as As_2O_5.	Total Lead as Pb.O.	Water Soluble Solids	Water Soluble Arsenic as As_2O_3.	Water Soluble Lead as Pb.O.	Water Soluble Impurities.	Arsenic (As_2O_5).	Lead (Pb.O).			
	p. c.	p. c.	p. c.	p.c.	p.c.	p.c.	p.c.	p. c.	p. c.			
X. W. E. BÉLAND, INSPECTOR.												
....	0·40	27·31	70·27	1·0	0 24	0·00	0·76	....	.....	No.	37075	
....	50 00	27·31	71·00	1·5	0·12	0·36	1 02	13·65	35·50	No.	37076	
. ...	0·15	25·88	72·66	1·0	0·12	0·18	0·70	.....	.....	No.	37077	Tin container rusted through.
. .. .	41·12	27·31	71·00	1·0	0·12	0·18	0·70	16·08	41·90	Yes.	37078	
DR. V. P. LAVALLÉE, INSPECTOR.												
.. . .	29·12	28·03	65·49	1·0	0·12	0·18	0·70	17·73	46·39	No.	58957	
....	0·15	30·19	66·96	1·0	0·36	0·18	0·46	.....	.....	No.	58958	
J. C. ROULEAU, INSPECTOR.												
....	40 25	27·31	71·00	0·5	0·12	0·00	0·38	16·32	42·42	Yes.	1645	
. .....	46·92	25 88	72·11	1·5	0·12	0·36	1·02	13·74	38·28	No.	1646	
D. J. KEARNEY, INSPECTOR.												
. .....	45·26	31 62	65·85	2·0	0·12	0·18	1·70	17·31	36 05	Yes.	58701	
....	27·85	26·59	71·00	1·5	0·12	0·18	1·20	19·19	51·24	Yes.	58702	
.....	46·53	31 62	65·49	2·5	0·12	0·36	2·02	16·91	35·02	Yes.	58703	
....	47·79	27 31	70·27	1·5	0·12	0·18	1·20	17·95	36·69	Yes.	58704	
.....	41·39	31·62	64·56	1·0	0 12	0·18	0·70	18·53	57·84	No.	58705	
.....	40·16	25·45	70 67	1·0	0·12	0·36	0·64	15·23	41·33	Yes.	58706	
....	45·33	30·19	67·69	2·0	0·12	0·36	1·52	16 89	37·01	Yes.	58707	
.....	38·90	30·19	66·96	1·0	0 12	0 18	0·70	18·49	40·91	No.	58708	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF VALLEYFIELD—							
1913.							
July 15	Arsenate of Lead.	58051	Besner & Chasle, Valleyfield, P.Q.	3 jars.	75	Canada Paint Co., Ltd.	.....
" 26	" ..	58052	Jas. Fortune, Huntingdon, P.Q.	3 " ..	1.20	Sherwin-Williams Co., Ltd.	.....
" 26	" ..	58053	A. Anderson, Herdman, P.Q.	3 " ..	1.20	" " ..	.....
DISTRICT OF OTTAWA—							
July 11	Arsenate of Lead.	59151	F. G. Newman, Byward Market, Ottawa	3 jars.	1.50	Canada Paint Co., Ltd., Toronto.	.....
" 12	" "	59152	The National Drug & Chemical Co., Ltd., Ottawa.	3 lbs..	75	Vendors.....	.....
" 12	" "	59153	J. S. Skinner & Son, Wellington st., Ottawa.	1½ " .	38	.....	Lymans Ltd., Montreal.
" 14	" "	59154	Standard Drug Co., Rideau st., Ottawa.	3 "	105	Canada Paint Co., Ltd., Toronto.	Drug Trading Co. Toronto,
" 14	" "	59155	Harrison's Pharmacy, Rideau st., Ottawa.	1⅛ " .	30	.....	Ottawa Drug Co., Ottawa.
" 14	" "	59156	M. A. Henderson, Bank st., Ottawa.	1 " .	25	.....	" ....
" 14	" "	59157	F. W. Day, Bank st., Ottawa.	1 " .	25	Nat. Drug & Chem. Co., Ltd., Ottawa.	Manufacturers.
" 14	" "	59158	W. J. Graham, Sparks st., Ottawa	1½ " .	40	Lymans Ltd., Montreal.	" ....
" 14	" "	59159	Graham Bros., Queen st., Ottawa.	3 " .	75	The Canada Paint Co., Montreal.	" ....
Aug. 15	" "	59160	Graham Bros., Queen st., Ottawa.	1½ " .	25	May & Baker, Battersea, London, Eng.	" ....
DISTRICT OF KINGSTON—							
June 23	Arsenate of Lead.	57350	G. W. Mahood, Kingston.	3 tins.	75	The Canada Paint Co., Montreal.	.....
" 23	" "	57351	W. A. Mitchell, Kingston.	3 jars	90	National Drug Co., London, Ont.	.....
" 25	" "	57352	A. Geen, Belleville....	3 lbs..	75	.....	Drug Trading Co. Toronto.
" 25	" "	57353	H. R. Smith, Cobourg.	3 tins.	1.05	Sanderson & Peardy Co., Toronto.	.....
" 26	" "	57354	McDermid & Jury, Peterboro,	3 bots.	75	Canada Paint Co., Montreal.	.....

SESSIONAL PAPER No. 14

ARSENATE OF LEAD.

Inspector's Report, (Is not an expression of Opinion.)	Results of Analysis.											Remarks and Opinion of the Chief Analyst.
	Moisture in Sample as received.	Results Calculated on the Dry Sample.						Percentage Weights in Original Sample.		Analysis made on original package.	No. of Sample.	
		Total Arsenic as As_2O_5.	Total Lead as Pb_3O_4.	Water Soluble Solids.	Water Soluble Arsenic as As_2O_5.	Water Soluble Lead as Pb_3O_4.	Water Soluble Impurities.	Arsenic (As_2O_5).	Lead (Pb_3O_4.)			
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
J. J. COSTIGAN, ACTING INSPECTOR.												
....	30·02	25·88	70·09	2 0	0·12	0·18	1·70	15·85	42·74	Yes.	58051	
....	40·45	25·88	71·19	2 0	0 24	0·36	1·40	15·41	42·40	Yes.	58052	
....	39·62	25·88	71·37	2 0	0·12	0·00	1·88	15·79	43·00	Yes.	58053	
A. RICKEY, INSPECTOR.												
Labelled, Neutral, C. P. Arsenate of Lead.	43·35	25·88	71·74	1·5	0·48	0·18	0·84	14·66	40·64	Yes.	59151	
Guaranteed to contiin 15% Arsenic Oxide, less, than 50% moisture, less ⅛ of 1% Sol. Ars. Oxide.	43·45	28·75	65·85	1·5	0·12	0 00	1·38	16·26	37·21	No.	59152	
. ...	44·81	25·88	71·71	2·0	0·24	0 00	1·76	14 27	39·60	No.	59153	
Neutral C.P., Arsenate of Lead.	41·75	25·45	72·11	1·0	0·12	0·18	0·70	16·74	37·68	Yes.	59154	
....	0·15	28·75	68·98	2·5	0·36	0·00	2·14	.....	.....	No.	59155	
... .	0·25	27·31	68·61	1·5	0·48	0·00	1·02	.....	.....	No.	59156	
.. ..	0·25	28·03	66·77	2·5	0·12	0·00	2·38	.....	.... ..	No.	59157	
... .	0·25	25·88	71·37	2·0	0·36	0·36	1·28	.....	.....	No.	59158	
Neutral C.P., Arsenate of Lead.	44·33	27·31	71·00	1 0	0·24	0·00	0·76	15·21	39·53	Yes.	59159	
....	0·45	28·75	64·93	3·0	0·12	0·18	2·70	.....	.....	No.	59160	
JAS. HOGAN, INSPECTOR.												
... .	40 91	25·88	71·74	1·5	0·48	0·00	1·02	15 32	42·47	Yes.	57350	
....	44·45	31 62	65·49	1·0	0·12	0·00	0·88	17·61	36·38	No.	57351	
.....	34·74	30·19	68·42	1·5	0·24	0·36	1·10	19·70	44·65	No.	57352	
....	39·69	25 88	72·11	1·0	0·12	0·18	0·70	15·61	43·49	Yes.	57353	
.....	41·56	27·31	70·27	1·0	0·12	0·18	0·70	15·96	41·06	Yes.	57354	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—							
1913.							
June 26	Arsenate of Lead.	57355	The Warne Drug Co., Peterboro.	3 tins.	75		National Drug Co., Toronto.
" 26	" "	57356	E. L. Payne, Peterboro	3 bots.	75	Canada Paint Co., Montreal.	
" 26	" "	57357	Nugent Drug Co., Peterboro	3 "	90	The Grasselle	
" 26	" "	57358	W. Madill, Peterboro.	3 tins.	75		Drug Trading Co. Toronto.
DISTRICT OF TORONTO—							
June 23	Arsenate of Lead.	57460	Jury & Gregory, Collingwood.	1 lb.	25		Unknown
" 4	" "	57461	H. Cooke & Co., Orillia.	1 "	25		Lyman Bros. & Co., Ltd., Toronto.
" 25	" "	57462	Wm Crossland, Barrie.	3 pkgs	90		The Drug Trading Co., Ltd., Toronto.
" 26	" "	57463	D. Pettit, Pickering	1¼ lb.	30		Nat. Drug & Chem. Co., Ltd., Toronto.
" 27	" "	57464	G. M. Rice, Whitby	1½ "	20	The Sherwin-Williams Paint Co., Toronto.	
July 8	" "	57465	Sanderson, Pearcy Co., 65 Adelaide st., Toronto.	2 "	40	Canada Paint Co., Montreal.	
" 8	" "	57466	The T. Eaton Co., Ltd., Toronto.	3 pkgs	51	Interstate Chem. Co., Jersey City, N.J.	
DISTRICT OF HAMILTON—							
July 9	Arsenate of Lead.	58825	Parke & Parke, 17 Market Square, Hamilton.	3 tins.	60	Grasselli Chem. Co., Hamilton.	
" 9	" "	58826	Grasselli Chem. Co., Ottawa st., Hamilton.	3 jars.	54	Vendors	
" 10	" "	58827	Niagara Brand Spray Co., Brant st., Burlington.	3 kegs	4.20	Merimac Chem. Co., Boston, Mass.	

SESSIONAL PAPER No. 14

ARSENATE OF LEAD.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.											No. of Sample.	Remark and Opinion of the Chief Analyst.
		Resultats Calculated on the Dry Sample.						Percentage Weights in Original Sample.					
	Moisture in Sample as received.	Total Arsenic as As_2O_5.	Total lead as Pb. O.	Water soluble Solids.	Water soluble Arsenic as As_2O_5.	Water soluble Lead as Pb. O.	Water soluble Impurities.	Arsenic (As_2O_5).	Lead (Pb. O.)	Analysis made on original package.			
Concluded													
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
....	43·06	31·62	66.04	2·5	0·48	0·36	1·66	18·01	37·61	No.	57355		
. .. .	35·79	26·53	71·96	1·5	0·12	0·18	1·20	17·04	46·21	Yes.	57356		
....	38·45	27·31	70·27	2·0	0·12	0·00	1·88	16·81	43·25	Yes.	57357		
.. ..	43·67	28·75	68·80	2·5	0·27	0·36	1·90	16·23	38·83	Yes.	57358		
H. J. DAGER, INSPECTOR.													
... .	0·15	28·75	65·85	2·5	0·24	0 18	2 08	.....	.....	No.	57460		
Grasselli Arsenate of Lead.	0·20	25·88	68·24	4·0	0·48	0·36	3·16	.....	.....	No.	57461		
Neutral Arsenate of Lead.	38·27	25·88	70·82	2·0	0·12	0 18	1·70	15 98	43·72	Yes.	57462		
....	46·14	30·19	66·96	1·5	0·12	0·00	1·38	16·26	36·06	No.	57463		
....	44·46	25·88	71·74	2·0	0·12	0·36	1·52	14·38	39·85	No.	57464		
....	32·21	25·88	70·27	1·0	0·12	0·00	0·88	17·55	47·64	No.	57465		
Key Brand. Containt 15½ p.c. arsenic oxide.	45·40	30·19	64·56	1·0	0·12	0·00	0·88	16·49	35·25	Yes.	57466		
D. M. CAMERON, INSPECTOR.													
....	44·44	31·62	66·04	2·0	0·12	0·00	1·88	17·56	36·69	Yes.	58825		
... ...	47·93	28·75	67·69	1·0	0·12	0·36	0·52	14·96	35·25	Yes.	58826		
.. ..	38·55	28·75	62·91	2·0	0·12	0·00	1·88	17·67	38·66	Yes.	58827		

BULLETIN No. 284—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Adress of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1913.							
July 3	Arsenate of Lead.	54847	P. Bawden, Ridgetown.	3 pkgs	60		Nat. Drug Co., Hamilton.
" 7	"	54849	A. I. McCall & Co., Chatham, Ont.	3 "	60		Chemical Laboratory, Toronto.
" 11	"	54878	Dardi & Hunter, London, Ont.	3 "	75	Canada Paint Co., Montreal	
DISTRICT OF ROCKY MOUNTAINS—							
July 3	Arsenate of Lead.	49917	C. R. Macdonald, Revelstoke, B.C.	¾ lb.	40	Merimac Chem. Co., Boston, Mass.	
" 3	"	49918	Walter Bews, Revelstoke, B.C.	¾ lb.	55	Vreeland Chem. Co., New York.	
" 16	"	49920	E. W. Hazlewood, Trail, C.-B.	¾ lb.	45	" "	
" 16	"	49932	Goodeve Bros., Rossland, B.C.	¾ lb.	40	" "	
" 28	"	49940	Poole Drug Co., Nelson, B.C.	3 tins.	75	The B.C. Soap Wks., Vancouver, B.C.	
" 28	"	49943	Rutherford Drug Co., Nelson, B.C.	3 "	45	Vreeland Chem. Co., New York.	
DISTRICT OF VANCOUVER—							
Aug. 8	Arsenate of Lead.	54911	Dr. Hepworth, Stevesston, B.C.	3 pkgs	90		J. A. Teeporten, Vancouver.
14 "	"	54912	Nat. Drug & Chem. Co., Vancouver, B.C.	3 "	45	Vreeland Chem. Co., New York.	
DISTRICT OF VICTORIA—							
July 28	Arsenate of Lead.	57632	Wm. Jackson & Co., 1411 Douglas st., Victoria.	1 lb.	35	Unknown	Unknown
" 29	"	57635	Nat. Drug. & Chem. Co., Ltd., 519 Yates st., Victoria.	3½ "	150	Vreeland Chem. Co., New York.	
" 29	"	57636	The Victoria Chem. Co., Ltd., 7 Dallas Road, Victoria.	3 "	75	Nobel, Glasgow, Sc.	
" 29	"	57637	W. J. Pendray & Sons, Ltd., Laurel Point, Victoria.	3 "	60	Vendors	

SESSIONAL PAPER No. 14

ARSENATE OF LEAD.

Inspector's Report, (Is not an expression of Opinion).	Results of Analysis.											Remarks and Opinion of the Chief Analyst.
	Moisture in Sample as Received.	Results Calculated on the Dry Sample.						Percentage Weights in Original Sample.		Analysis made on Original Package.	No. of Sample.	
		Total Arsenic as As_2O_5.	Total Lead as Pb_3O_4.	Water Soluble Solids.	Water Soluble Arsenic as As_2O_5.	Water Soluble Lead as Pb_3O_4.	Water Soluble Impurities.	Arsenic (As_2O_5).	Lead Pb_3O_4.			
JNO. TALBOT, INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
. . . . .	43·70	25·88	70·45	1·50	0·12	0·00	1·38	14·56	39·67	Yes.	54847	
. . . . .	41·67	25·88	68·80	4·00	0·12	0·00	3·88	15·09	40·13	Yes.	54849	
. . . . .	39·91	25·88	69·35	1·00	0·12	0·00	0·88	15·55	41·67	Yes.	54878	
THOS. PARKER, INSPECTOR.												
. . . . .	0·25	27·31	67·14	1·50	0·12	0·36	1·02	.....	.....	No.	49917	
. . .	0·20	28·75	65·12	4·00	0·60	0·54	2·86	.....	.....	No.	49918	
. . . . .	0·15	31·62	65·12	1·00	0·12	0·18	0·70	.....	.....	No.	49920	
. . . . .	0·20	30·19	64·75	2·50	0·12	0·00	2·38	.....	.....	No.	49932	
. . . . .	38·47	28·75	70·09	1·00	0·12	0·18	0·70	17·69	43·14	Yes.	49940	
. . . . .	0·15	28·75	65·12	2·00	0·24	0·18	1·58	.....	.....	No.	49943	
J. F. POWER, INSPECTOR.												
. . . . .	0·20	31·62	66·41	2·00	0·24	0·00	1·76	.....	.....	No.	54911	
. . . . .	0·15	32·34	66·22	1·50	0·12	0·18	1·20	.....	.....	No.	54912	
D. O'SULLIVAN, INSPECTOR.												
. . . . .	26·96	29·47	66·96	3·50	0·12	0·00	3·38	19·73	48·91	No.	57632	
Electro	0·15	31·62	64·93	0·50	0·12	0·18	0·20	.....	.....	No.	57635	
. . . . .	44·69	28·75	68·80	2·50	0·36	0·18	1·96	15·90	38·06	Yes.	57636	
. . . . .	33·05	25·88	68·80	6·00	0·12	0·36	5·52	17·25	46·06	No.	57637	

REPORT

OF THE

MINISTER OF AGRICULTURE

FOR THE

DOMINION OF CANADA

FOR THE YEAR ENDED MARCH 31

1914

PRINTED BY ORDER OF PARLIAMENT.

OTTAWA
PRINTED BY J. DE L. TACHÉ, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY.
1914

[No. 15—1915.]

TABLE OF CONTENTS.

	PAGE
MINISTER'S REPORT.	
I. General Remarks	1
II. Arts and Agriculture	12
Dairy and Cold Storage Branch	12
The Dairy Season of 1913	12
Increase of Dairying Production	13
The Export Trade	13
The Home Trade in Dairy Products	13
Cow Testing	13
Model Cheese Factories and Creameries	13
Fruit Inspection	14
The Enforcement of the Dairy Laws	14
Fruit Crop Report	14
Instructions in Fruit Packing, etc	14
Experimental Cold Storage for Fruit	14
Iced Car Service	15
Cargo Inspection	15
Cold Storage Subsidies	15
Creamery and Farm Cold Storages	15
Publications and Instruction	16
Seed Commissioners Branch	16
Seed Growing	16
Seed Testing	17
Seed Inspection	18
Live Stock Branch	18
Dominion Experimental Farms and Stations	21
Field Husbandry Division	22
Division of Chemistry	23
Division of Horticulture	25
Cereal Division	27
Important New Varieties	27
New Varieties of Oats and Barley	28
Milling and Baking Tests	28
Distribution of Samples of Grain and Potatoes	28
Division of Botany	28
Pathological Work	29
Botanical Work	29
Division of Entomology	30
Division of Forage Plants	33
Variety Tests	33
Breeding Work	34
Cultivated Grasses	34
Animal Husbandry Division	34
Live Stock on the Central Farm	35
Buildings for Animal Husbandry Division, Experimental Farm	36
Assistance given to Branch Farms	36
The Poultry Division	37
Tobacco Division	38
Experimental Station, Charlottetown, P.E.I	39
Experimental Station, Fredericton, N.B	39
Experimental Farm, Nappan, N.S	39
Experimental Station, Kentville, N.S	39
Experimental Station, Ste. Anne de la Pocatière, Que	40
Experimental Station, Cap Rouge, Que	40
Experimental Farm, Brandon, Man	40
Experimental Farm, Indian Head, Sask	40
Experimental Station, Rosthern, Sask	40
Experimental Station, Scott, Sask	41
Experimental Station, Lethbridge, Alta	41
Experimental Station, Lacombe, Alta	41
Experimental Farm, Agassiz, B.C	41
Experimental Station, Invermere, B.C	41
Experimental Station, Sidney, B.C	42
Substations	42
Field Crops of the Dominion	42
Areas and Estimates of Yield and Value of Field Crops, 1913	42
Areas and Estimates of Yield and Value of Field Crops, 1912	43
Live Stock	43
Members of Farm Live Stock, 1909-1913	43

PAGE

Health of Animals Branch 43
Contagious Diseases Division 43
Glanders 44
Dourine 44
Mange 44
Sheep Scab 45
Hog Cholera 45
Rabies 45
Tuberculosis 45
Meat and Canned Foods Division 46
The Publications Branch 46
III. Patents of Invention 48
IV. Copyrights, Trade Marks, Industrial Designs and Timber Marks 51
V. Public Health and Quarantine 52
Asiatic Cholera 53
Bubonic Plague 53
Small-pox 53
Leprosy 54
Beri-Beri 54
Enteric Fever 54
Enteric Fever 54
Typhus Fever 54
Tuberculosis 55
Circulars 55
New Organized Quarantine Station 55
Additional Inspectors on Mail Steamers 55
Changes in Staff 55
Public Works Health Act 55
Panama Canal 56
Appendices. (*See* Detailed Index).
Public Health. Reports of Quarantine Officers, Nos. 1 to 17.
Miscellaneous—
Appendix No. 18. Exhibitions.
Appendix No. 19. International Institute of Agriculture.

INDEX TO APPENDICES.

PUBLIC HEALTH.

No. 1. Report of the Director General of Public Health, F. Montizambert, I.S.O., M.D., Edin., F.R.C.S.E., D.C.L. 57
2. Report on St. Lawrence Quarantine, Dr. Martineau 79
3. " Halifax Quarantine, Dr. Mackay 83
4. " St. John Quarantine, Dr. Ruddick 85
5. " Chatham Quarantine, Dr. Baxter 86
6. " Digby Quarantine, Dr. DuVernet 86
7. " North Sydney Quarantine, Dr. McLeod 87
8. " Louisburg Quarantine, Dr. Morrison 87
9. " Charlottetown Quarantine, Dr. Conroy 88
10. " Summerside Quarantine, Dr. McLellan 88
11. " Victoria Quarantine, Dr. Nelson 89
12. " Victoria Quarantine, Dr. Fraser 91
13. " Vancouver Quarantine, Dr. MacKechnie 91
14. " Prince Rupert Quarantine, Dr. Tremayne 92
15. " Tracadie Lazaretto Quarantine, Dr. Langis 92
16. " of Public Works (Health) Inspector, Chas. A. L. Fisher, J.P. 94
17. " of Public Works (Health) Inspector, A. E. Clendenan, M.D. 101

MISCELLANEOUS.

18. Exhibitions 107
19. International Institute of Agriculture 108

REPORT

OF THE

MINISTER OF AGRICULTURE

1913-14

To Field Marshal, His Royal Highness Prince Arthur William Patrick Albert, Duke of Connaught and of Strathearn, K.G., K.T., K.P., etc., etc., etc., Governor General and Commander in Chief of the Dominion of Canada.

May it Please Your Royal Highness:

I have the honour to submit to Your Royal Highness a report of the Department of Agriculture for the fiscal year ending March 31, 1914.

I.—GENERAL REMARKS.

The work of the department has been carried on efficiently, and a synopsis of the operations of the various branches comprised therein is laid before Your Royal Highness under their respective headings.

The legislation affecting the department during this period consisted of:—

Chapter 5, 3-4 George V, intituled "An Act for the granting of aid for the advancement of Agricultural Instruction in the Provinces." (Assented to 6th June, 1913.)

Chapter 6, 3-4 George V, intituled "An Act to amend the Animal Contagious Diseases Act." (Assented to 6th June, 1913.) (In force 15th July, 1913.) See proclamation dated June 13, 1913, *Canada Gazette*, dated 14th June, 1913.

Chapter 25, 3-4 George V, intituled "An Act to amend the Inspection and Sale Act." (Assented to 6th June, 1913.)

By Order in Council of date the 14th April, 1913, the administration of chapter 30, 7-8 Edward VII, intituled "An Act respecting the Sale and Marking of Manufactures of Gold and Silver, and Gold and Silver Plated ware," formerly administered by the Minister of Agriculture, was assigned to the Minister of Trade and Commerce.

By an Order in Council of date the 25th day of June, 1913, the following regulations were made and established under the provisions of section 320*a* of the Inspection and Sale Act:—

1. In these regulations:

(*a*) "importer" means the person, firm or corporation in Canada to whom fruit from outside of Canada is sold, shipped, consigned or delivered.

(*b*) "fruit" means apples, crab apples, pears, plums and peaches when shipped in closed packages.

(*c*) "inspector" means an inspector employed by the Department of Agriture of Canada to enforce the provisions of Part IX of the Inspection and Sale Act, chapter 85, Revised Statutes of Canada, 1906, and the regulations made thereunder.

2. No fruit shall be imported into Canada except as hereinafter provided.

3. Every importer of fruit, or his representative, shall cause all grade marks found on closed packages containing imported fruit to be completely removed, erased

or obliterated, when such grade marks are different to, or inconsistent with, the markings or branding required by sections 320 and 321 of the Inspection and Sale Act, or section 4 of these regulations.

4. Every importer of fruit, or his representative, shall cause all closed packages containing such imported fruit to be marked or branded in a plain and legible manner, in letters and figures not less than half an inch long, and in the following form:—

{Place here the proper grade marks.} {Place here the correct name of the variety.}

Imported by

{Insert here the name and address of the importer.}

5. The removal, erasure or obliteration of original grade marks or brands on closed packages containing imported fruit and the re-marking or branding of said closed packages to conform with the provisions of the Inspection and Sale Act as required by these regulations, shall be done at the time when the said packages are being taken from the railway car, steamship or other conveyance in which they have been brought into Canada.

6. The marks or brands specified in section 4 of these regulations shall be placed on the end of the packages.

Vide Canada Gazette, vol. xlvi, p. 4797.

By an Order in Council under date the 8th day of October, 1913, the regulations under "The Destructive Insect and Pest Act," established by Order in Council under date the 11th day of May, 1910, were further amended by adding after the word "Manitoba" in line 7 of regulation 3 thereof the words "North Portal, Sask."

Vide Canada Gazette, vol. xlvii, p. 1091.

By an Order in Council of date the 4th day of December, 1913, the regulations under "The Destructive Insect and Pest Act," established by Order in Council of the 11th May, 1910, were further amended by striking out the words "Importations by mail shall be subject to the same regulations," in line 14 of regulation 3 and by adding thereto the following new regulation:—

> "18. The importation of all nursery stock, including trees, shrubs, plants, vines, grafts, scions, cuttings or buds, through the mail is prohibited, excepting greenhouse-grown florist stock, cut flowers, herbaceous perennials, and bedding plants, which will be admitted provided that a detailed statement of the contents is attached to such parcels."

The said regulation to take effect on and after the 1st day of March, 1914.

Vide Canada Gazette, vol. xlvii, p. 1865.

Whereas by Order in Council dated the 19th August, 1911, regulations were established with a view of eradicating certain contagious diseases among horses in certain portions of the province of Alberta;

And whereas the Veterinary Director General has reported that it would be advisable and in the public interest to remove the restrictions at present in force from a portion of the territory now under restrictions in the said province;

Therefore, by Order in Council under date the 4th day of December, 1913, the above named regulations were amended as follows:—

The words "Townships 40 and 41" in the second paragraph of the said Order in Council of the 19th August, 1911, are cancelled and the words "Townships 34 and 35" substituted therefor.

Vide Canada Gazette, xlvii, p. 1865.

Whereas by Order in Council dated the 8th June, 1911, regulations were established in connection with mange in cattle in certain portions of the provinces of Saskatchewan and Alberta, owing to the prevalence of the said disease of mange in the said provinces;

And whereas the Veterinary Director General has reported that it would be advisable and in the public interest to remove the restrictions at present in force from a portion of the territory now under restrictions in the province of Alberta;

Therefore, by Order in Council under date the 4th day of December, 1913, the above named regulations were amended as follows:—

The words "Townships 40 and 41" in the second paragraph of the said Order in Council of the 8th June, 1911, are cancelled and the words "Townships 34 and 35" substituted therefor.

Vide Canada Gazette, vol. xlvii, p. 1865.

By an Order in Council under date the 13th day of December, 1913, the regulations established under "The Quarantine Act" were further amended by striking out the figures "18" in the second line of subclause (*d*) of clause 31 thereof and substituting therefor the figures "14" so as to fix fourteen days as the recognized period of incubation for smallpox instead of eighteen days as at present.

Vide Canada Gazette, vol. xlvii, p. 1969.

By Order in Council under date the 10th day of January, 1914, the regulations established by Order in Council of 30th November, 1909, under "The Animal Contagious Diseases Act," were further amended by adding to clause 42 thereof the following subclause:—

"The importer will also be required to produce an affidavit to the effect that the swine he proposes to import have not been immunized to hog cholera by the simultaneous injection of hog cholera virus and serum."

Vide Canada Gazette, vol. xlvii, p. 2337.

By an Order in Council of date the 14th day of February, 1914, the regulations established by Order in Council of the 11th May, 1910, under "The Destructive Insect and Pest Act" were further amended by striking out clause 6 thereof and substituting therefor the following:—

"6. Nursery stock, not including such stock as is exempt under section 3 of these regulations, originating in Europe, shall be imported only through the ports and with the exception of St. John, N.B., during the period specified under section 3 for stock requiring fumigation, with the addition of the ports of Halifax, N.S., Sherbrooke, P.Q., and Montreal, P.Q., through which ports, and also the port of St. John, N.B., such European stock may enter from September 15 to May 15. Such European nursery stock, and such other imported vegetation as the Minister may determine, entering Canada, shall be exempt from fumigation, but shall be inspected, either at the port of entry or at its destination to which it may be allowed to proceed, but in the latter case it must not be unpacked except in the presence of an inspector."

Vide Canada Gazette, vol. xlvii, p. 2794.

By an Order in Council of date the 16th February, 1914, the regulations under "The Animal Contagious Diseases Act," established by Order in Council of the 30th November, 1909, were further amended by adding thereto the following additional section:—

"IMPORTATION OF ANIMALS FROM THE UNITED KINGDOM.

"Sec. 30½. Animals, as aforementioned in the preceding eight sections, imported from Great Britain, must be accompanied by an official certificate of the Board of Agriculture and Fisheries instead of that of the local authority and, animals imported from Ireland direct or transhipped in Great Britain, by an official certificate of the Department of Agriculture and Technical Instruction for Ireland.

"This amendment shall take effect from the 1st day of June, 1914."

Vide Canada Gazette, vol. xlvii, p. 2795.

By an Order in Council of date the 7th day of March 1914, the regulations under "The Destructive Insect and Pest Act" established by Order in Council dated the 11th May, 1910, were further amended by adding to section 12 thereof, which contains a list of destructive insects, pests and diseases to which the said Act shall apply, the following insect pest, the "Potato Tuber Moth (*Phthorimaea Operculella* Zett)"; and by adding to section 13, after the word "Miquelon" in the second line thereof, the following words, "also the state of California, being one of the United States of America."

Vide Canada Gazette, vol. xlvii, p. 3119.

THE AGRICULTURAL INSTRUCTION ACT.

This Act was assented to on the 6th June, 1913, and was for the purpose of granting aid for the advancement of Agricultural Instruction in the provinces.

The money voted to the provinces under it will be devoted exclusively to agricultural education. The basis of expenditure in each province to be as agreed upon between the Federal Minister of Agriculture and the respective provincial ministers. The appropriation under this Act will enable the provinces to increase the efficiency and equipment of the agricultural colleges, establish agricultural schools, dairying and horticultural schools, short courses in agriculture, to initiate agricultural teaching in the public schools and work by travelling or located qualified instructors, and to undertake such other lines of educational work in agriculture as may seem desirable.

According to the terms of this Act $10,000,000 are to be given to the provinces to be expended on agricultural education during the next ten years. Subsequent to the passing of the Act, $700,000 was allotted the first year and this amount will be increased by $100,000 annually until 1917, from which year until 1923, $1,100,000 will be provided yearly.

Speaking broadly the division of the money among the provinces will be on a population basis. There are, however, slight modifications of this principle. In the first place, $20,000 a year is to be set aside to be divided among such veterinary colleges as grant degrees and come up to a required standard. In addition $20,000 will be allotted to each province regardless of population. The provinces shared as follows in 1913:—

Prince Edward Island	$ 26,529 85
New Brunswick	44,509 93

Alberta	$ 46,094 95
British Columbia	47,334 76
Manitoba	51,730 05
Nova Scotia	54,288 45
Saskatchewan	54,296 29
Quebec	159,482 40
Ontario	195,733 32

It is provided that if any year any province is not prepared to use all its grant, the unused remainder shall be held by the Dominion for future use by that province, or until such time as it can make good a claim, or show good cause for its payment. If from lack of educational machinery, or for any other reason, any province is not able to submit a satisfactory scheme, the Federal Government would be prepared to formulate one for such province's assent.

At the beginning of the calendar year there was commenced the publication of a monthly magazine, "The Agricultural Gazette of Canada." It is issued from the Publications Branch and constitutes the official organ of the department. The information contained is not, however, confined to the work of this department, but, through the co-operation of officials in Provincial Departments of Agriculture and other duly organized institutions concerned with the advancement of agricultural instruction and investigation, there is chronicled, from month to month, many of the more important activities of governmental and other organizations in all parts of Canada.

The *Agricultural Gazette* is not circulated generally but is sent only to the press, to legislators and to those engaged in official agricultural and educational work. A small additional number of copies of each number are printed, for which a subscription fee of one dollar per year is charged.

An event of importance was a Conference of Agricultural Instruction held in Ottawa on March 24 and 25. At this meeting there were brought together representatives of the Provincial Departments of Agriculture and of Education, Agricultural and Veterinary Colleges, and included five provincial Ministers of Agriculture, eight provincial Deputy Ministers of Agriculture, nineteen representatives of Departments of Education and educational institutions, besides a number of other important officials of Provincial and Dominion Departments.

The purpose of the conference was to discuss plans and exchange ideas in regard to work carried on by the several provinces under the provisions of The Agricultural Instruction Act.

The gathering, which was more or less informal, occupied a morning and an afternoon session each day. No set programme was prepared. The chief subjects discussed were demonstration work, district representative work, agricultural instruction in the schools, the work of agricultural colleges and schools and the *Agricultural Gazette*. Besides facilitating the objects of The Agricultural Instruction Act, the members appreciated the opportunity afforded them to become acquainted and to learn some of the details of what each was doing in widely separated fields, in the interest of a common cause.

In May, 1913, the meetings of the General Assembly of the International Institute of Agriculture were held at Rome, and attended on behalf of Canada by Mr. Philemon Cousineau, K.C., LL.D.; Mr. R. F. Stupart, F.R.S.C., F.R.A.S.C., Director

of the Canadian Meteorological Service; Mr. H. G. Dering, M.V.O., First Councillor of the British Embassy at Rome; and Mr. T. K. Doherty, LL.B., Commissioner of the International Institute of Agriculture for Canada.

Since the holding of the last General Assembly the number of States adhering has increased from forty-eight to fifty-three. The continual expansion of the work of the Institute and consequent increased expenditure called for an increase of the regular contribution of the adhering States from 1,500 francs per unit, which has been paid up to the present time, to 2,500 francs per unit from January 1, 1914. Canada's annual contribution will, in consequence, be raised from 12,000 to 20,000 francs.

The proceedings of the General Assembly were marked by three striking progressive steps, viz., the creation of a permanent Meteorological Commission, the drawing up of the "Acte Final" for the creation of an International Phytopathological Commission, the adoption of special measures for the more rapid collection and publication of crop reports.

(1) *Creation of an International Meteorological Commission.*—Mr. R. F. Stupart, director of the Canadian Meteorological Service, who is a member of that commission, has, as a consequence of this international action, secured an additional staff of three graduates of the Guelph Agricultural College, specially qualified to investigate the application of meteorology to agricultural requirements. The system is being rapidly expanded so as to extend its benefits to a variety of agricultural interests.

(2) *Drawing up of the "Acte Final" for the creation of an International Phytopathological Commission.*—Mr. H. T. Güssow, Dominion Botanist, represented Canada at the International Phytopathological Conference held at Rome, February 24 to March 4, 1914, and was one of the signers of the "Acte Final," which was also signed by sixty-five other representatives, including four from the United Kingdom of Great Britain and Ireland.

The prime object of the conference was the perfecting of arrangements for the control of plant diseases and which, subject to the fulfilment of certain specific conditions, would permit of the regular free transmission through the ordinary channels of trade, of nursery stock, or rather of living plants and living parts of plants (sets, cuttings, grafts, flower-bulbs and cut flowers) intended for export. This purpose was attained at the conference by the application of provisions similar to those that had proved successful through the Phylloxera Convention for the protection of the vine. The adhering Governments must be prepared to declare that they possess: (1) arrangements for the efficient supervision of the areas where the plants are grown; (2) arrangements for the inspection of packages of plants; (3) arrangements for granting certificates of freedom of plants from disease. The provisions of the conference are not to apply to vines, seeds, cereals, tubercles, bulbs, fruit, vegetables, etc. The members of the International Commission of Experts, since the Institute is its official centre, are expected to meet at Rome at the time of the meetings of the General Assembly for the purpose of coming to an understanding on questions of common research and studies.

(3) *The adoption by the Institute of special measures to insure the more rapid collection and publication of crop reports.*—This was brought up at the General Assembly meetings on the proposal of Mr. T. K. Doherty, one of the Canadian representatives.

On January 24, 1914, the Second Commission of the Institute reported favourably through its president, Dr. Müeller, of Germany. The Permanent Committee, at its meeting of March 12, concurred and declared its belief in the possibility of bringing about the earlier publication of the "Bulletin of Agricultural Statistics," and instructed the general secretary to communicate with the various Governments to endeavour to secure from them a more rapid transmission of official data. It is hoped that through the measures to be proposed and recommended by the Institute, other countries will be induced to vie with the United States in the matter of speed and be prepared to furnish their reports to the Institute, at the latest, on or before the 10th of the month.

In the appendix will be found a detailed report of the proceedings of the last General Assembly, together with the report of Canada's delegate to the International Phytopathological Conference. (See appendix No. 19.)

The office of the Canadian Commissioner of the Institute continued issuing the monthly bulletin, "The Publications of the International Agricultural Institute," during the year. With the January, 1914, number the name of this bulletin was changed to "The Bulletin of Foreign Agricultural Intelligence." The circulation of the bulletin now amounts to 9,500 copies per month. The bulk of the contents are taken from the "Bulletin of Agricultural Intelligence and Plant Diseases," the original articles by agricultural experts, republished in full, being an important feature. Detailed statistics of crops, live stock censuses and imports and exports of cereals were also given. The service of sending out multigraph crop reports, on receipt of the cabled reports from the Institute was continued.

During the year, besides the regular bulletin the Institute issued several valuable publications. Among these were "Notes on the Statistics of Foreign Trade in the Different Countries; Statistical Publications, Territory, Kinds of Trade, Source and Destination of Goods," "Organization of the Statistics of Foreign Trade in Italy," "The Agricultural Produce Exchanges of Hamburg and Budapest," "The Antwerp Corn Market," "Agricultural Division of the Territory of the different Countries," "The Present Organization of the Services for the control of Plant Diseases and Insect Pests in the different Countries," "Production and Consumption of Chemical Manures in the World," "Monograph on Agricultural Co-operation in different Countries, vol. 2," and "Agricultural Credit and Co-operation in Italy."

The efforts to obtain recent official publications of various countries for the library have been continued; 400 new books were added during the year, bringing the total number of bound volumes to 1,578; 110 periodical publications are received in exchange or by subscription. Increased accommodation has been provided and there are now 630 feet of shelving.

The bulletins and card indexes of the United States Department of Agriculture and Experiment Stations are regularly received and filed.

Cards referring to agricultural publications in the Library of Congress are also received quarterly and are in process of classification. Analytic cards for subjects treated in "Annales des Institutions Agronomiques" are also received and classified.

A report from the Canadian Exhibition Commissioner for the fiscal year ended 31st March, 1914, will be found as an appendix hereto. (See appendix No. 18.)

The Canadian Exhibition Commissioner and staff are busily engaged in the preparation of a Canadian display of the natural resources of the Dominion for exhibit at the Panama-Pacific Exposition to be held in San Francisco early next year.

With regret I have to report the death of a valued officer of the Public Health Branch, Doctor A. T. Watt, Superintendent of British Columbia Quarantines, Victoria, B.C. Doctor Watt died on the 27th July, 1913.

Canada participated in the third meeting of the International Congress of Refrigeration held at Chicago in September, 1913, and was represented thereat by Mr. J. A. Ruddick, the Dairy and Cold Storage Commissioner.

H. Rundle Nelson, M.D., B.Ch.L., M.B.A., of Victoria, B.C., was appointed medical superintendent of the Quarantine Station at William Head, B.C., from the 22nd September, 1913, vice Doctor A. T. Watt, deceased.

A disastrous fire took place on the morning of the 11th of October, 1913, at the Central Experimental Farm at Ottawa, by which the main barn, the bull barn and the steer barn were completely destroyed. Arrangements were at once made for the prompt reconstruction of the barn.

Personally I visited the Universal Exposition at Ghent, Belgium, last summer, where Canada had a large and important exhibit.

This exposition obtained a great success and attracted much attention. Canada's display of natural products and resources being most creditable.

While in Europe I also looked into agricultural matters in Great Britain and on the continent and discussed matters affecting the Federal Department of Agriculture.

II.—ARTS AND AGRICULTURE.

DAIRY AND COLD STORAGE BRANCH.

There has been no change in the organization of the Dairy and Cold Storage Branch during the past year. The four divisions of Dairying, Fruit, Extension of Markets, and Cold Storage, into which the Branch is divided for systematic work have been continued under the general direction of Mr. J. A. Ruddick, as Dairy and Cold Storage Commissioner.

THE DAIRYING SEASON OF 1913.

The season of 1913 was marked by a period of very dry weather in some of the chief producing districts of Eastern Canada, and the supply of milk was somewhat reduced on that account. There was a noticeable increase during the past year in the quantity of milk diverted from cheese factories in Ontario and in western Quebec to supply the growing demand for milk and cream in the towns and cities. There was also a continued growth in the city creamery business. It is a rather regrettable feature of this movement that these creameries are drawing their supplies of cream chiefly from the patrons of old-established cheese factories and creameries, thus reducing the revenue which is already too small for the welfare of the business. Their operations cover a very wide area in some cases.

While there is a general increase in milk production in every part of Canada, the province of Nova Scotia and the three prairie provinces are showing the largest percentage development in factory dairying at the present time. New creameries are being started in all these provinces, and the local authorities report a great increase of interest in the dairying industry.

INCREASE OF DAIRY PRODUCTION.

The figures of the Census of 1911, which have only recently become available, show a total increase in the number of cows in Canada of only 185,502 in ten years, but the total value of dairy products during the same period increased from $66,470,953 to $109,340,024.

The average annual yield of milk per cow has been increased from 2,850 pounds in 1900 to over 4,000 pounds at the present time. This result is partly due to the general improvement in live stock, but the cow-testing work promoted by the Dairy Division has undoubtedly been a potent factor in raising the productiveness of Canadian dairy cows. This improvement has added over $25,000,000 to the annual value of dairy production in Canada, and the end has not yet been reached.

THE EXPORT TRADE.

There was a further decrease of about 15,000,000 pounds in the export of cheese for the season of 1913, with some increase in the shipments of cream and milk to the United States.

The exports of dairy products in 1913 amounted to about 15 per cent of the total production, as against 34 per cent in 1900.

THE HOME TRADE IN DAIRY PRODUCTS.

The total home consumption of milk and dairy products has increased 75 per cent during the past ten years, and the per capita consumption during the same period shows an increase of over 30 per cent. It would appear from these figures that home consumption is increasing rather faster than production.

COW TESTING.

The cow-testing work which was started several years ago is now making rapid progress. Twenty-two Dairy Record centres were in operation in 1913, and a large number of small cow-testing associations in different parts of the country were assisted through the Dairy Division. Hundreds of farmers are supplied with the blank forms for keeping records on their own account. The propaganda in connection with the cow-testing movement consists of:—

(*a*) The publication of popular bulletins, circulars, etc.;

(*b*) The frequent preparation of short articles for the press dealing with various aspects of the work and citing specific cases of increase in milk yield as a result of systematic testing;

(*c*) Addresses given by recorders, provincial supervisors, and headquarters staff;

(*d*) Personal visits to farmers by recorders; and

(*e*) A very extensive correspondence.

The large amount of clerical work involved in the calculation and compilation of the records is done at headquarters.

MODEL CHEESE FACTORIES AND CREAMERIES.

The model combined cheese factory and creamery at Finch, Ont., and the model creamery at Brome, Que., have been operated during the year. They have been visited by a large number of persons interested in cheese factory and creamery work. The value of improved equipment and proper facilities for winter work has been clearly

demonstrated during the past winter, when the unusual demand for milk and cream in Montreal enabled the management to supply that market with a high-class article of both milk and cream at prices which were very satisfactory to the patrons. The quantity of milk received during the past winter at the Finch station was three times greater than the quantity delivered in 1912-13.

FRUIT INSPECTION.

For the purpose of enforcing the law, the country is divided into five districts, with a chief inspector over each, and a staff of subinspectors assigned to definite territory within each district.

During the season of 1913-14, fifty-one inspectors were thus employed.

There is no attempt to inspect all packages of fruit. The onus of proper grading and marking rests on the packer.

Special attention is paid to the ports of Montreal, Halifax, Quebec and Vancouver, and to fruit imported from the United States into the prairie provinces.

Imported fruit must be marked in the same manner as the domestic article, the importer, who is held responsible, being required to place his name and address on each package.

Packers or importers who are detected in violations of the law are prosecuted and the names of those convicted are published.

There were 103 convictions during the season of 1913-14.

THE ENFORCEMENT OF THE DAIRY LAWS.

Part VIII of the Inspection and Sale Act is also administered by the Dairy and Cold Storage Commissioner. A number of prosecutions have been made during the past year against creameries and dealers for selling butter containing over the legal limit of 16 per cent of water in butter.

Some difficulty has been experienced in securing convictions owing to certain ambiguities in the existing statutes. For the purpose of remedying these defects and broadening the scope of the dairy laws, I have introduced a Bill into the House of Commons, by which it is proposed to repeal Part VIII of the Inspection and Sale Act.

FRUIT CROP REPORT.

Each season, from May to September, a monthly Fruit Crop Report is published, showing the state and prospects of the fruit crop in Canada and, to a certain extent, in other countries as well.

INSTRUCTIONS IN FRUIT PACKING, ETC.

To meet the increasing demand in Eastern Canada for instruction in the packing of apples in boxes, an expert attached to this Branch is employed throughout the season in demonstrating that method of packing.

During the slack season, the permanent fruit inspectors assist at orchard meetings for the purpose of giving instructions in pruning, grafting, etc.

EXPERIMENTAL COLD STORAGE FOR FRUIT.

An experimental cold storage warehouse for fruit is now being erected at Grimsby, Ont. It will afford facilities for carrying on experiments in the cold storage of different varieties of fruit, and also in demonstrating the value of pre-cooling for long distance shipment.

ICED CAR SERVICES.

The arrangement was renewed with the railways for a refrigerator car service for butter, covering the period from the middle of May to the middle of October, to Montreal, Quebec and Halifax. These cars are run weekly or fortnightly, according to the requirements of the route, on an advertised schedule so that shippers are enabled to deliver their butter at the railway station with the least possible exposure to heat. Any quantity from one package upwards can be shipped in these cars at the regular less-than-carload rate, without extra charge for the icing or for the special service. The departmental guarantee on each car amounts to two-thirds of the earnings of a minimum carload from starting point to destination and, in addition, about two-thirds of the cost of icing.

Inspectors were employed, as has been customary for several years, at the freight terminals to watch the unloading of these cars and report on their condition, the temperature of the butter and the quantity of ice remaining in the bunkers. These inspectors make daily reports to the department, and any defects or deficiencies in the services are promptly brought to the attention of the responsible railway authorities. In this way an efficient service is maintained.

Commencing about the middle of June and extending over a period of eleven weeks the department paid the icing charges up to $5 per car on a limited number of refrigerator cars when used for carload shipments of cheese.

An arrangement similar to the foregoing, except that there was no limit to the number of cars, was in force from August 1 to October 1 for carload shipments of early apples and tender fruit consigned to Montreal and Quebec for export in cold storage.

CARGO INSPECTION.

During the year cargo inspectors were employed at Montreal, Quebec, Halifax, Liverpool, London, Glasgow, and during the winter season at Portland, Me., to report the condition in which perishable goods were delivered to and discharged from the steamers, and to supervise the handling generally.

Over 200 thermographs were used in this service and over 3,700 copies of continuous temperature records were made for distribution.

COLD STORAGE SUBSIDIES.

The Cold Storage Act (chapter 6, 6-7 Edward VII), of which the details of administration are also in the hands of the Dairy and Cold Storage Commissioner, is intended chiefly to encourage the erection of small local public cold storage warehouses for the preservation of perishable food products. It provides that the Government may grant a sum not exceeding 30 per cent of the total cost of site, equipment and construction of such public cold storage warehouses. The subsidy is paid in instalments which are spread over a period of four years. No assistance is given to any company proposing to build in places where a public cold storage is already in existence. The rates charged in subsidized warehouses are subject to the approval of the Governor in Council.

CREAMERY AND FARM COLD STORAGES.

A bonus of $100 is paid to any creamery that erects suitable cold storage rooms according to plans and specifications furnished free by the department.

Working plans and specifications for small cold storages and dairies suitable for a farmer's use, are also distributed free to all who apply for them

PUBLICATIONS AND INSTRUCTION.

An annual report is published showing in detail the work of the Branch. Bulletins and circulars on various subjects are issued from time to time for free distribution.

Members of the staff address a large number of farmers' meetings throughout the year, officiate as judges at dairy and fruit exhibitions and at milking competitions, and, through an extensive correspondence, act in an advisory capacity on a great variety of subjects.

SEED COMMISSIONER'S BRANCH.

This Branch has for its object the encouragement of the production and use of superior seeds. Field crop competitions, seed fairs and provincial seed exhibitions, established in co-operation with the Provincial Departments of Agriculture, encourage the production of such seeds. A money grant to the Canadian Seed Growers' Association, direct subventions to growers of field root and garden vegetable seeds that are not commonly grown in Canada, and other educational work serve the same purpose. Seed laboratories are maintained in Ottawa and Calgary for testing and grading seeds for farmers and seed merchants, and a limited control over the trade, as provided by the Seed Control Act, is secured through the inspection of seeds when exposed for sale by retailers.

Seeds of cereal grains and most kinds of grasses and clovers used on Canadian farms are home-grown, but practically all our field root and garden seeds are imported. Some kinds of seeds commonly used by farmers and gardeners usually require particular attention on account of their defective purity or vitality caused by unfavourable climatic conditions. The seed crop of 1913, however, is a fortunate exception to the rule, and it is encouraging to be able to report that the supplies of both home-grown and imported seeds were never better than for the ensuing year.

SEED GROWING.

I am pleased to be able to report that the assistance and co-operation extended by my department to the Provincial Departments of Agriculture to encourage greater care in the production and use of seed grain have been both useful and educational, and I have arranged to have this work continued and enlarged. Last year 315 field crop competitions, 183 seed fairs and 12 provincial seed exhibitions were conducted, all of the provinces reporting satisfactory progress with them.

The Canadian Seed Growers' Association has continued and enlarged its service to agriculture. During the last ten years it has received an annual grant from my department in addition to much assistance from the officers of this Branch. It was arranged at the time of its organization that as soon as the association was sufficiently well established to assume full control of its own affairs, it should take over all its work. I have this year been pleased to give effect to that idea and to increase the amount of its grant to enable the association to carry on its work more efficiently.

For many years a few farmers and gardeners in Canada have produced small quantities of field root and vegetable seeds of superior quality for their own use. The information available would seem to indicate that home-grown selected seeds produce, on the whole, more satisfactory crops than do imported seeds. It was with a view gradually to extend the efforts of seed growers of such crops, that had not before been extensively grown for seed in Canada, that I authorized special encouragement to be given to the growers in the form of direct subventions based on the quantity of selected seed produced by them. It is satisfactory to note that this encouragement has had the effect of stimulating to increased efforts, and there is good reason to believe that the results will be highly beneficial.

SEED TESTING.

The testing of seeds includes purity analysis to determine the kinds and quantities of weed seeds and other foreign or inert matter, a germination test to determine the percentage of seeds capable of germinating under favourable conditions, and trial plot tests to determine whether or not a sample is true to the kind and variety represented. A seed laboratory is maintained in Ottawa for the service of the East, and one at Calgary for the West of Canada, in which purity and germination tests are conducted in connection with educational work and the administration of the Seed Control Act. In all, nearly 20,000 samples were tested and reported upon to farmers and seed merchants during the past year, forty-five of them having been received from farmers.

Certificates of grading on all samples of timothy and clover seeds are promptly issued. The time for a germination test varies with the kind of seed. The certificates issued give the necessary information to farmers and seed merchants to enable them to conform to the provisions of the Seed Control Act. The great volume of work in these laboratories is done during the months of January, February, March and April. During the summer and early autumn the staff of the seed laboratories is employed in preparing educational collections of seeds for distribution to schools of agriculture, and in special investigation work pertaining to the conditions of the seed supply.

The dissemination of screenings from wheat and flax has been the cause of considerable anxiety among farmers and farmers' organizations in different parts of Canada, and I have caused a thorough investigation to be made of the whole question in its relation to agriculture. The information now available would seem to indicate that under proper regulations the danger from using ground screenings for feeding may be greatly minimized if not entirely eliminated. The great bulk of the refuse which accumulates from the cleanings of cereal grains prepared for export is of splendid value as a food for stock, and I hope as soon as all the necessary information is at hand to be able to safeguard the handling of them in such a way as to serve the best interests of all concerned.

I have been pleased to co-operate with my colleague, the Minister of Inland Revenue, by undertaking the analysis of ground feeding stuffs in relation to their content of vital weed seeds. Three hundred and ninety-six samples were collected by officers of the Inland Revenue Department who have charge of the Adulteration of Foods Act, and of that number 140 were reported to contain noxious weed seeds that were vital.

SEED INSPECTION.

Seed inspection is necesssary to secure the observance of the Seed Control Act. Samples of grass or clover are drawn by farmers or seed merchants and mailed to one of the laboratories. Certificates of grading are issued on the samples, which are kept on file for reference. When the seeds so graded are exposed for sale in the retail trade they come under the supervision of the seed inspection staff of this Branch. When any lot of seed is believed to be wrongly branded, a sample is drawn by the inspector and forwarded to the seed laboratory for comparison with the original sample for which the grading was issued. A reasonable allowance for natural variation in the proportion of impurities is made, and should the seed be of a quality inferior to the original sample, the seed merchant or farmer responsible for the grading is called upon for an explanation. Last year, in all, 4,212 merchants and farmers who sell seeds were visited and their stocks inspected; 839 violations of the Act were detected, the most of which were of a minor and trivial nature. The condemnation of the court is sought only in cases where there is reason to believe that a reasonably strict observance of the Act cannot be obtained by more lenient means. I regret to have to report that it was found necessary last year to institute proceedings against 87 persons who were dealing in seeds.

During the past year a useful and well-illustrated book of reference, "Fodder and Pasture Plants," which has been in the course of preparation for some time, was completed and is now being distributed free to public institutions and made available to individuals at a nominal price.

THE LIVE STOCK BRANCH.

Perhaps at no other time in the history of Canadian agriculture has there been a fuller realization than is now the case of the vital and far-reaching importance of live stock husbandry, not only in the permanent and successful exploitation of our varied and extensive agricultural assets but as well, even if indirectly, in the stable and equitable development of the commercial and industrial interests of the country. The fact, as borne out by the recent census, that live stock production through a period characterized by progressive industrial activity and an expanding human population has evidenced no corresponding growth or advancement, suggests a practical explanation of the present high cost of living, and directs attention to a weak link in the related enterprises contributing to our national prosperity. In the belief that an opportunity for effective work through the Live Stock Branch is now presented, I have thought it advisable to considerably strengthen this branch of the service and to provide an appropriation more commensurate with the duties and responsibilities devolving upon the department in the undertaking of aggressive work in the interests of our live stock husbandry. The increased vote which I have asked for and been able to obtain, and which aggregates an amount double that available in previous years, has made possible the undertaking of a new policy which has already been fully advertised and of the details of which the farmers are now generally cognizant. I refer to the assistance rendered by the department in connection with the loan, to associations of farmers in newly settled districts, of pure bred sires

for breeding purposes. The benefits derivable from this policy have been of a two-fold nature in that while the opportunity thus presented to the farmer of securing selected male breeding stock under reasonable conditions has made possible the retiring from use of large numbers of nondescript scrub sires to the consequent advantage of the breeder and feeder, there has been given to the business of rearing pure-bred stock the stimulus directly resulting from the opening up of a wide and undeveloped field of operation.

Owing to the fact that this policy was not entered upon until the late spring of 1913, it was found necessary to confine assistance, in so far as stallions and bulls were concerned, to new districts in the western provinces and in New Ontario. In all, five stallions and one hundred and one bulls were placed in the hands of associations during the year. The five stallions, including four Clydesdales and one Percheron, were located in New Ontario and in Quebec. The distribution of the bulls, by breeds and provinces, is indicated in the following table:—

—	Shorthorn.	Hereford.	Angus.	Holstein.	Ayrshire.	Red Polled.	Total.
Ontario	9			3			12
Manitoba	19	3	1	4			27
Saskatchewan	29		1	3	1	1	35
Alberta	19	1		4			24
British Columbia				1	2		3
	76	4	2	15	3	1	101

The stallions purchased for loan to associations are bought subject to a rigid veterinary examination, must be of suitable age, and are required to conform to a high standard as regards type, quality and action. None but Canadian-bred animals are handled, it being believed that it would be unwise to enter into competition with the importers of pure-bred stock. The fact that, in the case of stallions particularly, Canadian-bred animals are thoroughly acclimated, suggests the advantage to be derived from the use of sires which may be depended upon to leave a fair percentage of strong, hardy, vigorous progeny. The prices paid are not extravagant, but, as will be admitted, they allow Canadian breeders a very fair margin of profit. Bulls are bought subject to the tuberculin test, and must not be under twelve months of age.

In explanation of the policy, it may be stated that the purpose of the undertaking is to aid sections where pure-bred sires are lacking, and to encourage new communities in following a proper and intelligent system in breeding. It is not the intention to place animals in districts where suitable sires of the same class are already owned by private individuals. The animals purchased remain the property of the department but the local associations to which they are loaned are held responsible for their proper maintenance and management under the general supervision of officers of the branch. In the case of stallions, the members of the associations are required to pay a fee covering an annual insurance premium. In taking advantage of the offer of the department, the farmers of a district are required to organize a local association, the officers of which, in accordance with the provisions of the constitution decided upon,

assume responsibility for the maintenance of the animal applied for and for the proper administration of all business connected therewith.

Following the distribution of bulls and stallions during the summer months, a considerable number of rams and boars were located with associations during the fall and early winter. Both the Maritime and the Western Provinces, together with the newer portions of Quebec and Ontario, participated in the benefits of this latter distribution. One hundred and ninety-nine rams, representing the most prominent breeds, and one hundred and nine boars were supplied during the year.

Extending now over a considerable period, the development of the work of the Canadian Record of Performance has been very rapid, and, during the fiscal year 1913-14, the number of cows entered was more than double the number entered in a twelve months' period three years ago. This increase in the volume of entries is particularly interesting in view of the fact that no special effort has been put forth to induce breeders to participate in the advantages of the test. The growth has accordingly been a healthy one and has been brought about largely through the demand on the part of purchasers for evidence of production in the ancestry of breeding stock maintained for dairy purposes. As the Record of Performance test is the only official record which indicates the production during the full period of lactation of a cow carrying a calf, its value and importance has impressed itself upon breeders, and the steadily widening sphere of its influence is a natural result. In this connection it is of interest to note that, at its annual meeting in 1913, the Dominion Shorthorn Breeders' Association adopted a standard and authorized the testing of cows in the Canadian Record of Performance under the conditions imposed by the department. The large number of cows entered to date is an encouraging sign of the increased interest now being taken in developing the latent milking capacity of this breed.

Following the programme which had previously been initiated, an endeavour has been made to afford practical aid to wool growers through the demonstration of efficient methods in classifying and preparing wool for market. Two expert wool classifiers were stationed in the western provinces during the shearing season last summer, and their advice and services in explaining wool grading and packing operations were placed at the disposal of the wool growers. I have reason to believe that this assistance was much appreciated.

To give wider effect to the work which had been undertaken, an exhibit of foreign and domestic types of wools was prepared and displayed at several large fall and winter exhibitions throughout Canada. In addition to this, facilities were provided for the consignment of a trial shipment of approximately 50,000 pounds of wool to the London, Eng., market, with the view of standardizing and of obtaining recognition for Canadian wools in the chief clearing centre in the world for this product. The department assisted in this shipment by the payment of 25 per cent of the freight charges. The wool was sold to advantage, and it is gratifying to know that experts commented favourably upon its condition and quality.

Following the investigation referred to in a former report, a vigorous campaign has been conducted during the past year with the view of overcoming, in part at least, the enormous loss and shrinkage which has hitherto prevailed in connection with the trade in eggs. This campaign has included:—

1st. A definite recommendation to the wholesale trade, favouring the adoption of a system of quality payment for eggs.

2nd. The organization of co-operative marketing associations amongst producers.

3rd. The education of consumers in determining quality in eggs.

The advances made to the produce dealers with respect to quality payment have been well received. Owing, however, to the fact that in this country there is no recognized standardization in the grading of eggs, it has been impossible to develop this system of buying to its fullest extent. The trade has, nevertheless, generally adopted quality payment in having decided to buy on a loss-off basis, according to which deductions are made for all bad eggs and a higher price paid for the graded product than prevailed under the old case-count system.

Owing to the extremely high prices which new-laid eggs have commanded during the past year in the best Canadian markets, the public has shown a keen appreciation of the possibilities in the poultry business, as a result of which there has been a rapidly growing demand for the assistance which this branch is prepared to offer in the organization of co-operative egg marketing associations. This interest has been particularly apparent in the province of Prince Edward Island, where more than sixty associations have been formed, the total membership of which approximates 4,000 farmers. Other provinces have shared in this progressive movement, although not to so significant an extent.

As a further aid in successfully prosecuting the work, the attention of consumers has been directed to the means by which quality in eggs may easily be determined. The process of handling has been explained, an egg exhibit and candling demonstration has been presented at a number of the fall and larger winter exhibitions and a considerable quantity of cardboard egg candling appliances have been prepared for free distribution.

In view of the fact that the work of the branch has been considerably extended and augmented, a number of additions to the staff have been made necessary. The clerical staff of the office has been enlarged and several additions have been made to the Outside Service, through the appointment of inspectors in the Canadian Record of Performance and of a number of special officers in the several divisions. In this same connection, I would refer particularly to the appointment of Dr. J. P. Creamer, who has been engaged as representative of the Live Stock Branch for the provinces of Alberta, Saskatchewan and Manitoba.

DOMINION EXPERIMENTAL FARMS AND STATIONS.

The history of the Dominion Experimental Farms system during the year has been one of steady growth and expansion along lines already laid down. Areas have been added to several of the Branch Stations, permitting of a wider range of experimental work; substantial progress has been made in the erection of buildings, on the newer Stations especially, and in equipping them generally to take up the various lines of experimental work.

In March, land for an Experimental Station was purchased at Lennoxville, Que., and preliminary work will be pushed forward during the coming year.

On the branches already in full running order, new lines of work have been taken up and old ones continued, in many cases on a much larger scale than heretofore.

At the Central Farm, the increase of the work has necessitated the appointment of several assistants in the different divisions, each having charge of some special feature. The extension to the Chemical Laboratory has been practically completed, new greenhouses put under way, poultry buildings put up and substantial progress made with the new barn to replace the one unfortunately destroyed by fire on the 11th of October last.

The following publications have been issued during the year or are in the press at its close:—

Of the Regular Series, No. 72, Milk Production in Canada; No. 73, Smut Diseases; No. 74, Summary of Results with Cereals in 1913; No. 75, Summary of Results in Field Husbandry in 1913; No. 76, Summary of Results with Forage Plants in 1913, and No. 77, Summary of Results in Horticulture in 1913.

In the Second Series there were issued No. 15, on Preparing Land for Grain Crops on the Prairies; and No. 16, on How to Tell the Age of Hens and Pigeons.

Two Farmers' Circulars were brought out, No. 4 on Potato Diseases transmitted by the use of Unsound Seed Potatoes; and No. 5, on Powdery Scab.

Field Husbandry Division.

To obtain maximum profits in the growing of field crops is the aim of this division.

The investigational work now under way on the various Farms and Stations throughout the Dominion is of a very practical nature. Briefly it includes:—

1. Investigation of the relative merits of different crop rotations. On the Farms and Stations in Eastern Canada and in British Columbia, the object is to test thoroughly different rotations suitable for live stock purposes. In the Prairie Provinces where the production of saleable grain is still the great aim of the majority of farmers, they are designed more particularly for that purpose, though to meet the increasing demand for fodder crops a number of mixed farming rotations are being given a trial.

2. Studies in the methods of culture of, and curing, field crops. A series of soil cultivation experiments adapted to the dry conditions of the prairies has now been under way three years on each of the six prairie Farms and Stations. The chief object of these extensive experiments is to gather information concerning the conservation of moisture and soil fertility and the control and eradication of weeds.

3. Determinations of the cost of growing field crops under ordinary farm conditions.

4. Experiments to show the value of underdrainage and irrigation.

5. Studies of the influence of size and character of cultural implements on the cost of crop production.

6. Comparisons (in a limited way) of various grains and forage crops as food producers.

Division of Chemistry.

The work of the division has progressed satisfactorily in all its branches, though owing to the rapid development of the country and the increasing demand on the part of our agriculturists for information and advice respecting their every-day operations, it has been found difficult, and at times impossible, to keep pace with that phase of it which seeks to instruct and assist the man on the farm who looks to chemistry for help in the solution of the many problems that confront him. It is an encouraging sign of the times that throughout Canada generally there is an ever-increasing interest in what generally may be termed the principles of agriculture, in the knowledge of the nature, composition and properties of soils, fertilizers, feeding stuffs and other materials which by various agencies under skilful guidance may be transformed into profitable farm products. Thus it is that the correspondence and the examination of samples sent in by farmers now occupies a very much larger proportion of the time of the staff than they did a few years ago. This feature of the work has been encouraged because it has shown itself one of the best and most direct means of educating the farmer in matters that appertain to his vocation and for the dissemination of that information which if put into practice must tend to success.

During the year, 2,915 samples have been received for analysis or examination. They comprised soils, naturally-occurring fertilizers, fodders and feeding stuffs, insecticides and fungicides, well waters, etc., and while a large number of them were samples taken in connection with the investigations of the division, a very considerable proportion were sent in by farmers. The number further includes some 500 samples received for examination from the Meat Inspection Division, Health of Animals Branch. These had been taken in the course of inspection at the various packing houses and canneries of the Dominion, and consisted of lards, preserved meats, spices and condiments, evaporated apples, etc., etc.

Any detailed account of the many investigations carried on by the division will not be expected in this place, but an enumeration of them, with one or two words of explanation, will serve to indicate the wide field covered and the practical value of these researches to Canadian farmers.

Virgin Soils.—These have been chiefly from newly settled areas in the western provinces of the Dominion, and their analysis has been undertaken to ascertain their profitable value for tillage. Their general character and composition have been investigated, and from the data obtained an opinion has been expressed as to their suitability for cultivation and the crops most likely to succeed. Their deficiencies, if any, have been noted and the most economical means of supplying them suggested.

A number of soils collected in the western section of the Canadian Pacific Railway Irrigation tract, east of Calgary, have been critically examined with a view of determining the suitability of these lands for cultivation under irrigation. This investigation is still in progress.

Conservation of Soil Moisture.—This is a continuation of work commenced three years ago on several of the western Branch Experimental Farms, to learn the influence on the soil's moisture content of various systems of culture. It has already yielded some valuable results that may serve as a guide to the farmer in districts subject to a sparse rainfall.

Naturally-occurring fertilizers and amendments.—Analysis of the more abundant sea-weeds occurring on the Atlantic and Pacific sea-boards have been made, with a view of determining their relative value as potassic fertilizers. This work is still in progress, but the data already obtained clearly show that in many of them we have a material of high manurial value. In addition to their potash many of them contain a notable percentage of nitrogen. From the ready decomposition of sea-weed in the soil and the liberation of its plant food, we may expect a quick response when applied on soils, more particularly on warm, moist and light soils, that are deficient in potash.

Much interest has been evinced of late in Eastern Canada in the value of marl and finely-ground limestone for improving the physical condition and increasing the productiveness of soils. Our analyses have indicated that there are many Canadian soils that would be benefited by these compounds, to correct acidity and to supply a natural deficiency in lime. Deposits of marl and outcrops of limestone occur in many and widely distant points in the Dominion, but as yet neither marl nor ground limestone has been put generally on the market. Chemical analysis is necessary to determine the lime content of these materials, and this work has been prosecuted as opportunity permitted.

Fodders and Feeding Stuffs.—A series of products from the elevators' screenings, weed seeds, etc., has been submitted to analysis with a view to determining their composition and probable feeding value. Owing to the unpalatable character of many of the seeds making up these screenings the problem of a profitable use of this by-product becomes a matter of considerable moment, as every year there is a very large quantity resulting from the cleaning of wheat, flax, etc., at the elevators. It seems probable that by suitable sieves, etc., a certain separation may be made, resulting in a product that could be employed for feeding purposes, and other of the seeds being rich in oil could be of value in the preparation of this commodity for use in the arts and manufactures.

To learn the value of these products in poultry feeding, a series of feeding trials has been instituted in the fattening of cockerels. This is still in progress, so that final results cannot be reported, but it is expected that certain of the seeds may be found of value for this purpose, when mixed with ground grain. It is proposed to extend this work, employing sheep, pigs, etc.

Farm Roots.—A large number of the more commonly-grown varieties of mangels, carrots and turnips have been analysed and their relative feeding values tabulated. The information should prove of value to all feeders of stock.

The influence of the heredity in mangels, an inquiry begun in 1900, has received further investigation. The results go to show that quality is inherited and that to a certain degree it is independent of seasonal influences.

Sugar Beets.—The more important "factory" varieties of sugar beets as grown on the several Experimental Farms and Stations have been analysed, the data indicating as in former years that beets of excellent quality and quite suitable for sugar extraction may be grown in many and widely distant points in the Dominion.

Wheat.—The influence of environment on the composition of wheat has been further studied. It has been shown that profound modification as regards gluten content may be brought about by seasonal and soil conditions. The influences which

might be generally included under the term climatic undoubtedly have much to do in determining the ultimate quality of the wheat, and this investigation, carried on since 1905, has afforded much evidence towards establishing the conclusion that the high milling and baking quality of northwestern-grown wheat is due in a large part to the favourable conditions that usually prevail in the western grain-growing districts during the later summer months, leading to a quick maturation of the grain.

Well Waters.—There is no more valuable asset on the farm than an ample supply of pure water. The examination of waters from farm homesteads, which has from the first been an important and much appreciated feature in the work of the division, has been continued. It is gratifying to record that the interest in the subject of pure water becomes more and more keen throughout the rural parts; it must lead to improved health and thrift on the farm homestead.

Division of Horticulture.

There has been material development in the Horticultural Division during the past year. The appointment of Mr. M. B. Davis, B.S.A., as Assistant in Pomology, and of Mr. C. F. W. Dreher, B.S.A., as Assistant in Vegetable Gardening, necessary owing to the rapid growth of the Experimental Farms' Branch, has made it possible to extend the experimental work with fruits and vegetables, and has relieved the Dominion Horticulturist of a large amount of detail work at the Central Farm and enabled him to devote more time to the development of horticulture at the branch Farms and Stations, and to the increasing executive duties of the division.

During the year four new greenhouses were erected at the Central Farm, which give about 7,400 square feet under glass. These are now occupied and experiments are under way in floriculture, fruit culture, and vegetable culture, including the breeding and improvement of flowers, fruits, and vegetables. It is hoped and expected that the results of experiments in these greenhouses will be of considerable value, both to those who already have some glass and to the rapidly-increasing number who desire to erect greenhouses.

In 1913 the Dominion Horticulturist visited most of the Experimental Farms and Stations twice, to consult with the superintendents and advised them, when necessary, in regard to the horticultural work. He also planned the plantations and ordered the material for the newer Stations. The annual meetings of most of the Provincial Fruit Growers' Associations were attended by him, both in order that he might give information and be kept in touch with horticulturists and their problems in different parts of Canada.

The work in pomology at the Central and Branch Farms and Stations in 1913 consisted in the study of varieties of fruits as tested in the different experimental orchards throughout Canada; the naming of fruits sent in for identification, and the description of new fruits. Spraying and cultural experiments with fruits and vegetables were continued. At the newer Stations a considerable proportion of the orchards has been laid out with a view to more cultural work than has been possible at some of the older Farms, where the testing of varieties to find those most suited to the different climatic conditions in Canada seemed the more important work when the orchards were planned. In 1913 orchards were planted for this purpose at Kentville, N.S.; at

Ste. Anne de la Pocatière, Que.; at Cap Rouge, Que., and at Invermere, B.C. At the last named Station orchard plots for experiments in irrigation were planted.

Spraying experiments were given particular attention by the Station at Kentville, N.S., in 1913. The results obtained in the control of apple scab showed the great importance of early and thorough spraying.

Many new varieties of apples have been originated in the Horticultural Division, and scions of the best of these were distributed during the past year to different parts of Canada. The names of some of the most promising are: Melba, Joyce, Glenton, Rocket, Niobe, and Bingo.

Believing that apples of good size and quality will eventually be found which will prove hardy under trying prairie conditions, just as certain varieties which have favourable conditions are succeeding there, continued effort is being made to find or originate new sorts. The most recent method being tried on a large scale at the Prairie Farms is to raise seedlings of the hardiest known varieties, in nursery rows, and have the cold weather of winter eliminate the tender sorts before they are tested under orchard conditions. The results in 1913 were promising, individual trees showing superior hardiness.

While the apple has received most attention, other fruits have not been neglected. The value of the Senator Dunlap strawberry and the King raspberry for the colder parts of Canada was strikingly shown in 1913. Strawberries do very well on the prairies, especially if proper attention is paid to mulching. The importance of leaving the mulch on as late as possible in the spring to keep the plants from developing and to protect them from late frosts was well illustrated at the Rosthern Station in 1913, where the crop was saved in this way.

As vegetables are an important food-crop in Canada, and as a large number of persons are engaged in the production of them, they have always received considerable attention in the Horticultural Division. With an assistant to devote his time to the study of this crop it is now possible to do still more to aid the vegetable grower. In 1913, a special test was made of the same varieties of vegetables from different Canadian seedsmen to determine how many of them were true to name and true to type. It was found that there was great variation in the varieties of some kinds of vegetables from different sources, some being much better than others. Cultural methods, including several ways of training tomatoes and different distances in thinning various kinds of vegetables, were experimented with. At the Experimental Station at Fredericton, N.B., especial attention was paid to potatoes in 1913, as the potato is such an important crop in New Brunswick. A large collection of varieties was got together, and on testing them it was found that the variation in yields was very great. The best of these will be planted on a larger scale in 1914, so as to have a supply available for distribution in New Brunswick as soon as possible.

The selection of potatoes to improve varieties and types was also begun there. On all the Branch Farms and Stations vegetables were under experiment in 1913.

The breeding of vegetables is receiving particular attention at the Central Farm, much care and time being given to the selection and development of early strains. Seed of the Alacrity tomato and Early Malcolm corn, two varieties developed in the Horticultural Division, were distributed in 1913, and many favourable reports were received. Work with early strains of beans, peas, and other vegetables is in progress.

Believing that Canadians should pay more attention to the beautifying of their homes, an especial effort is being made in the Horticultural Division to obtain and disseminate information which will assist them. Large collections of hardy plants have been brought together for study, including roses, pæonies, irises, phloxes, and many other kinds of annuals, herbaceous perennials and ornamental trees and shrubs. The season of 1913 was especially favourable to annuals, and valuable notes were taken on the characteristics of a large number of varieties. In the newer parts of Canada, the experiments with flowers on the Branch Farms and Stations are very much appreciated, and there has been much favourable comment in regard to them. The professional nurserymen and florists who have now much capital invested in Canada also find very useful information in the results of the work with ornamental plants. The experiments with flowers in the new greenhouses at the Central Farm should prove of special value to those who grow flowers commercially.

Cereal Division.

After two seasons in which cereal crops were on the whole considerably below the average in quality, it is a pleasure to record that the past year was rather exceptionally favourable, in spite of some serious drawbacks in certain sections of the country.

In the Maritime Provinces the spring and summer were satisfactory, but prolonged wet weather in the autumn very badly damaged most of the late-maturing grain crops. Fields which were ready to cut at an early date were, however, saved in good condition.

In Ontario and Quebec there was a long drought over a very large area, by which the yields of grain were materially reduced, especially in all cases where seeding was late. Early-sown fields, and particularly those of early-maturing varieties, succeeded well and produced a good crop. The appearance of much of the grain in these two provinces is exceptionally bright. Spring wheat on the Central Experimental Farm produced remarkably plump, hard, bright kernels such as have probably never before been obtained in the history of this Farm.

In Central and Western Canada conditions were, as a rule, such as to give crops of cereals of rather better than average yield and quality.

Important New Varieties.

The work in spring wheat is receiving special attention and a very large quantity of material is under study. Attention may here be called to three of the Dominion Cerealist's new varieties of early-maturing spring wheat.

Prelude.—Another season's experience with this remarkably early-ripening variety has confirmed the opinions previously expressed. It is in a class by itself and is the only wheat yet introduced which can be confidently recommended for those northern localities where Marquis does not ripen early enough to escape the first frosts of autumn. Prelude is especially recommended for rich moist soils. Under very dry conditions it produces too short straw. A large distribution of free five-pound samples of this wheat has been made during the winter, and seed has also been sold to a few farmers in lots of usually about two bushels, so as to enable them to start the growing of this variety on a somewhat larger scale.

Marquis.—For the third year in succession this extraordinary variety has won the highest award in international competitions. The successes of 1911 at New York and 1912 at Lethbridge were followed last autumn by the winning of the highest award at the International Dry Farming Congress at Tulsa, Okla. The prize in 1911 was won by an exhibit from Central Saskatchewan, that of 1912 by an exhibit from Southern Alberta, and that of 1913 from Central Saskatchewan again. No comment is necessary on such a record.

Pioneer.—This is the most recent introduction by the Dominion Cerealist from the large collection of spring wheats of his own breeding which are now being studied and compared. In earliness Pioneer comes between Prelude and Marquis. It resembles Prelude in some respects, but produces longer straw and has more ability to resist drought. At the Experimental Station at Lethbridge it has given particularly good results both on the irrigated and non-irrigated sections of the Farm. Pioneer gives a very good yield of excellent hard red kernels which produce flour of very high strength and colour. This variety is not introduced for general use, but is recommended for trial in districts where Marquis ripens too late and Prelude produces too short straw.

NEW VARIETIES OF OATS AND BARLEY.

Many new cross-bred sorts of oats and barley are under test, but the study of these grains has not yet been carried far enough to warrant the introduction of any of them. Many of the types referred to thresh out free from hull and may be of particular value on that account. Some of the barleys are beardless, and for this reason are likely to be received with particular favour.

MILLING AND BAKING TESTS.

A special assistant has been given charge of the milling and baking tests, which for a long time previously were carried on by the Dominion Cerealist personally. This change has made possible the enlargement of the work so as to test as often as may be necessary the new varieties of wheat which are being produced, as well as those obtained from outside sources, and also to test samples of wheat and flour for the general public. A very large series of investigations has been carried on in the Ottawa laboratories during this past winter.

DISTRIBUTION OF SAMPLES OF GRAIN AND POTATOES.

The annual free distribution continues to attract great attention. It is pleasant to record the fact that the appreciation of good seed is growing so rapidly that it is extremely difficult to keep pace with it and to provide each year a sufficient amount of material of such high quality as to satisfy the public taste. The distribution from Ottawa is now drawing to a close for this season. About 6,800 samples of grain and 2,300 samples of potatoes will be sent out.

Division of Botany.

The work conducted by this division during the past year may be considered under the headings of Pathological work and Botanical work in the more restricted

sense, according as it relates to plant diseases or the identification and characteristics of flowering plants.

Pathological work.—One of the most important phases of this work has been that necessitated by the discovery of Powdery Scab of the potato (*Spongospora subterranea*) in the eastern provinces of Canada. While this disease has not given indications of being a destructive one under Canadian conditions, its importance has been much augmented by the attitude taken by the United States authorities, who have considered it as sufficiently serious to warrant the placing of an embargo on Canadian potatoes, except such as have been grown in districts officially declared free from the disease, and which before shipment have been inspected and certified by a recognized official to be disease-free. It thus became necessary that a careful survey be made of the provinces in which the disease has been found or was suspected. Most of this work has now been done, and it is expected that before planting time it will be possible to make a definite statement as to what areas can be declared disease-free. The inspectors who have been doing this work have also assisted the Provincial Departments of Agriculture in training various members of these departments to recognize the disease, and in giving addresses and demonstrations dealing with it. To further meet the demand for information, a circular devoted to a consideration of the nature of the disease and its control has been prepared and will shortly be ready for distribution as Farmers' Circular No. 5 of this division.

As many points in the development of the disease are not accurately known, it is proposed to have one or two field stations established in the worst infected areas, where experiments will be undertaken to elucidate these.

The inquiries necessary in connection with Powdery Scab have shown that there is considerable ignorance and indifference on the part of potato growers in respect to the presence of disease in the tubers they use for planting. In order to assist in furnishing information on this matter, a circular has been prepared depicting in natural colours the most important tuber diseases, and containing a concise summary of practicable methods of guarding against their spread.

Much work on the fruit diseases prevalent in the Niagara peninsula has been done from the field laboratory at St. Catharines, and a bulletin is in preparation giving the results of this. An investigation was also made into the nature and distribution of apple tree cankers occurring in certain areas of New Brunswick and Nova Scotia, with particular reference to the prevalence of what is generally considered to be European Canker (*Nectria ditissima*).

Numerous inquiries have been received and advice given on diseases affecting a great variety of fruit, forage, grain, and vegetable crops.

In December the Dominion Botanist was appointed a member of the delegation entrusted with the presentation of the Canadian case at the public hearing given at Washington to representatives of foreign Governments, previous to the passing of the potato embargo regulations by the United States. In February he attended the International Congress of Phytopathology, held at Rome, as the official delegate of the Dominion.

Botanical work.—A large and increasing number of plants are annually sent in for identification. A considerable proportion of these are more or less noxious weeds

and poisonous plants, regarding the habits and means of eradication of which information is requested. Such advice is given on these matters as is possible, but it is to be noted that there is a great lack of accurate experimental data on these subjects. Something has been done on a small scale by the division in testing the utility of the application of certain chemicals and sprays to destroy weeds, but it has not been possible to conduct field experiments on any adequate scale.

An increasing number of correspondents request information on native drug plants, their habitats, cultivation and marketing. Attention has been given to this subject, and it is intended to publish accounts of the more important of these plants as opportunity occurs.

A large number of species have been added to the collection of plants in the Arboretum and Botanic Gardens, and the object of making this collection representative of all that is most interesting and instructive in the flora of the temperate climates is gradually being attained. This opportunity may be taken to thank the officials of the various Botanical Gardens throughout the world who have assisted in this direction by exchanges and donations of seeds and plants.

Division of Entomology.

The work of this division has comprised: The administration of the Destructive Insect and Pest Act; the suppression of the Brown-tail Moth and the introduction of its parasites and those of the Gipsy Moth into New Brunswick and Nova Scotia; the carrying on of investigations upon insects affecting farm, garden and orchard crops, forest and shade trees, live stock, household and public health, mills and stored products, and the answering of inquiries and the giving of advice concerning the control of such insects; the naming of collections of insects for institutions and individuals; investigations on apiculture and the furthering of its development; and the administration of an appropriation for the care of the orchards on the Indian reservations of British Columbia.

Under the Destructive Insect and Pest Act, nursery stock originating in countries in which the San José Scale occurs was fumigated at our various fumigation stations. In order to facilitate the importation of nursery stock and trees into the western provinces, a new fumigation station has been erected at North Portal, Sask., which has been made a port of entry. On account of the increasing amount of nursery stock entering Eastern Canada, and with a desire to expedite its shipment, an additional fumigation station is being erected at Montrose for Niagara Falls, Ont., and our accommodation at Niagara Falls has been increased. A large and more up-to-date fumigation station has also been erected at St. John, N.B. Over four million imported trees and plants originating in Europe, Japan and the New England States were inspected for Brown-tail and Gipsy Moth and other pests.

The Brown-tail Moth is unfortunately spreading most seriously into New Brunswick and Nova Scotia from the adjacent states. A large flight of the female moths in July last has considerably increased the infested area and the intensity of the infestation in those provinces, so that now over 9,000 square miles of Canadian territory is infested. The Gipsy Moth in Maine is now within forty to fifty miles of the New Brunswick border. By means of a force of inspectors in each of the infested prov-

inces, every effort is being made, by collecting the winter webs of the insects, to hold it in check as long as possible, and I am pleased to acknowledge the co-operation of the Provincial Governments, who employ half the number of men engaged on the work of suppression.

As the Brown-tail and Gipsy Moths will only be controlled ultimately by natural controlling factors, such as insect parasites, disease and fungous, efforts are being made to introduce and establish natural enemies while the infestation is still in the initial stage. To assist in this object two field laboratories have been established at Bridgetown, N.S., and Fredericton, N.B. Through the great courtesy of any co-operation of the Chief Entomologist of the United States Department of Agriculture, an officer was located in Massachusetts for the purpose of collecting parasitized Gipsy and Brown-tail Moth caterpillars. The parasites were bred out and shipped to the laboratory in New Brunswick and put out at points in that province and in Nova Scotia. In addition to several hundred predaceous beetles, over 50,000 parasites of three different kinds were imported and liberated, the whole being divided to form twelve colonies. We have also found one of the species successfully established in Nova Scotia.

The policy which has been adopted of establishing field or regional laboratories in different regions of the Dominion in order to investigate the most serious insect pests in the districts in which they occur is producing excellent results. My officers are securing information which is necessary as a basis for control measures, and experiments in various kinds of preventive and control measures are in progress. Two additional laboratories were established during the past year and the following is a list of the entomological field laboratories at which our entomological investigations are being carried on:—

Bridgetown, N.S.—Investigations on the Brown-tail and the introduction of its parasites and control work; Bud Moth and Green Fruit worms of apple.

Fredericton, N.B.—Control work and investigations on the Brown-tail Moth and introduction of its parasites; parasitic and natural control of native insects; the Tent Caterpillar, Fall Web-worm, Spruce Budworm.

Covey Hill, Que.—Apple insects, especially apple curculio; Grasshopper control by bacterial disease.

Jordan Harbour, Ont.—Apple Maggot; Apple Aphids; control of greenhouse pests; control of mill-infesting insects.

Strathroy, Ont.—Investigation of White grubs, Wireworms and insects affecting field crops.

Treesbank, Man.—Investigation of White grubs and chief insects affecting cereals: Hessian Fly, Wheat Stem Maggot, Wheat Stem Sawfly and Grasshoppers.

Lethbridge, Alta.—Investigation of Cutworms and injury to winter wheat involving a study of Eelworms.

Agassiz, B.C.—Completion of a study of the Strawberry Root Weevil; investigations on the Lesser Apple Worm, Budmoth and other insects affecting deciduous fruits.

It is gratifying to note, apart from the importance of the various investigations which are now being carried on throughout the country, the additional advantage resulting from the placing of trained men in different localities. They have been able personally to advise local agriculturists on insect control, and when reports of insect outbreaks reach my department it is often possible to have one of my officers investigate the matter, thus saving time and securing certainty of identification and an appropriate advice.

Material progress is being made in fruit insect investigations, and those on the Apple Maggot, the Bud Moth and Strawberry Root Weevil are nearing completion or have been completed. Special attention is now being given to the Apple Aphids, which are becoming increasingly injurious to the fruit and nursery stock. The control of White grubs has been made difficult in the past by the lack of knowledge of the identity, life histories and habits of the different species involved. In co-operation with the United States Bureau of Entomology my officers are now carrying on an international investigation, and valuable and surprising data have been already secured.

The comparative study of methods of control for root-maggots has been continued. Two of my officers investigated the Cutworm outbreak in southern Alberta and carried on experiments on control measures. I am pleased to note that this hitherto unrecorded species has been less injurious in many sections where serious damage was done in previous years. Ordinary methods of control appeared to be ineffectual owing to the peculiar habits of the caterpillars, and the investigation will be continued. The study of the possible causes of extensive killing of winter wheat in which Eelworms appeared to be a possible factor, was begun.

Owing to reports of extensive damage to timber in British Columbia through the depredations of bark beetles and other forest insects, a special investigation was made during the summer months by my officer in charge of forest insect investigations and in co-operation with the Provincial Forestry Branch. Several serious outbreaks of bark beetles were located and studied and control measures based on the investigation were recommended to the Provincial Government. The enormous commercial value of the merchantable timber in British Columbia, and the presence of serious insect outbreaks which are controllable, renders a further study of the forest insects more necessary, and arrangements for such investigations are being made. The introduction of the parasites of the Larch Sawfly from England was continued, and a shipment of heavily parasitized cocoons received in the spring was established in southern Manitoba. In Eastern Canada an abnormally severe outbreak of Tent Caterpillars was experienced. Extensive areas of woodland were stripped in Quebec and New Brunswick, and where control measures had not been adopted orchards were entirely stripped. In the cities of Montreal and Ottawa the shade trees were defoliated. An investigation by my officers of the natural control factors indicated the presence of parasites affecting the eggs and larval stages and a wide prevalence of bacterial disease in the caterpillars.

An investigation was commenced with a view to discovering a practical method of controlling house flies under rural conditions. The chief requirements are that the insecticides used to destroy the larvæ in the manure piles shall be cheap and effectual and at the same time shall not injure the fertilizing value of the manure.

The work is not sufficiently advanced to permit the publication of definite results and it will be continued during the coming summer.

The appointment of a special officer to take charge of the agricultural work has had very gratifying results. It has now been possible to begin the organization of apiculture on the Branch Farms throughout the Dominion. With a view to securing varieties of bees which were suitable to Canadian conditions and resistant to bee-disease, breeding experiments were commenced, and for this purpose queens were imported direct from Italy, Switzerland and Austria, and also from the United States. I am pleased to record the increased attention which is being devoted to this important branch of agriculture throughout the country.

In addition to paying the necessary visits to various parts of the Dominion in connection with the investigations which my officers are carrying on, the Dominion Entomologist visited the states of Oregon, California and Utah in October to study the entomological methods employed in those states and to inquire into the occurrence of the Potato Tuber Moth in California, and the Alfalfa Weevil in Utah, with a view to ascertaining what protective measures it was necessary for us to take to prevent the introduction into Canada of these serious pests which have been introduced into the United States and have entailed very serious losses to the agriculturists. Owing to the repeated discovery of potatoes imported into British Columbia from California which were seriously infested with the larvæ of the Potato Tuber Moth and the impracticability of preventing its introduction by inspection and fumigation, the importation of California potatoes was prohibited under the Destructive Insect and Pest Act by an Order in Council passed March 7.

The importation of nursery stock, except certain classes of florists' stock, through the mails has also been prohibited.

The officers of the division have given addresses before agricultural, forestry and other conventions on the control of insect pests, and exhibitions have been arranged at Ottawa, Winnipeg and elsewhere. Several bulletins and circulars have been issued during the year.

Division of Forage Plants.

The work carried out by the Division of Forage Plants can be classified as follows:—

1. Variety tests, aiming to ascertain the comparative value of different already established varieties of the various cultivated forage plants.

2. Breeding work, the object of which is to produce new varieties of cultivated forage plants superior to those already in existence and better suited to the various climatic conditions in different parts of the country.

3. Investigations on wild grasses and kindred plants.

VARIETY TESTS.

During the year a number of varieties of Indian corn, mangels, turnips, carrots and sugar beets were tested. on the Central Experimental Farm as well as on the Branch Farms.

Each variety was grown in duplicate plots situated in different parts of the field, and the yield per acre calculated from the average yield of the two plots. By this arrangement, which was introduced during 1913, the disturbing influence of variation in the character of the soil in the experimental field is eliminated, at least to a certain extent. The value of duplication as a means of bringing about truer results in comparative test work was amply demonstrated at all the Experimental Farms and Stations, even on those where the soil was most uniform in character.

BREEDING WORK.

Alfalfa.—Owing to very unfavourable weather conditions during the spring of 1913, the alfalfa plots were partially killed. Working from the supposition that those plants which were able to survive represent the hardiest types, most of the plots were allowed to go to seed. Part of the seed thus obtained will be used during 1914 for further breeding work.

In order to secure a hardy and, at the same time, uniform variety of high yielding capacity, breeding from individual plants was also started. For this purpose about one thousand plants were secured and transplanted in the field.

Clovers.—With a view of securing, through natural selection, perfectly hardy types of clovers, an experiment consisting of a total of twenty-four plots and eighty-four rows was started with Red clover and Alsike. The object of this experiment which is to be continued during a number of years is not only to produce biological varieties characterized by resistance to cold but also to demonstrate, by actual figures, the value of home-grown seed.

Breeding of high yielding strains from individual plants possessing outstanding morphological characters, indicating high yielding power, was also started. For this purpose a starting material of about nine hundred individual red clover plants was secured.

CULTIVATED GRASSES.

From among twelve hundred individual timothy plants, planted during 1912, seventeen individuals were selected. They were self-fertilized and produced a fair amount of seed which next year will be used as stock seed for new varieties.

Animal Husbandry Division.

The work of this division during the past year has expanded rapidly and most satisfactorily. The scope of its work briefly is the laying out and superintending of the feeding, breeding, purchasing, management and housing of farm animals, manufacturing and marketing of their products, together with all routine and experimental work connected therewith, on the Central and Branch Farms and Stations in consultation with the Director of the Experimental Farms and the Superintendents of the various Farms and Stations.

The work on the Central Experimental Farm, Ottawa, during the past year was seriously handicapped by the loss of some of the most important buildings by fire.

These buildings included the main dairy barn, bull and calf barns and steer barn, together with silos, paddocks and scales connected therewith. Fortunately no cattle were lost, due to the prompt efforts of all the Farm employees. Nevertheless, all live stock experimental work on the Central Farm was discontinued, owing to the lack of appliances, necessary crowding and rearrangement of the stock in all departments.

LIVE STOCK ON THE CENTRAL FARM.

The horses on this Farm are all of draught type, except the necessary drivers. During past years geldings only were kept, but in the last two years it has been the policy to replace at least half of the geldings with mares and to commence breeding operations with the object in view of acquiring further data regarding horse rearing. During the past year one foal was reared. The numbers of mares have been increased, until now there are eight high-class Clydesdale mares, the most of which are in foal.

Beef cattle work with the present limited farm area must of necessity be confined to feeding experiments in the finishing of steers, no breeding stock being kept. The loss of buildings and feeds contained eliminated the steer feeding experimental work.

Dairy cattle are receiving increased attention. Representatives of five breeds, Holstein, Ayrshire, Guernsey, Jersey, and French Canadian are maintained, all of which have shown excellent returns. Milk production was naturally largely diminished when the buildings were lost and the cattle kept for several weeks in the open. Many pure-bred animals from these herds are annually sold for a moderate price, and are in great demand by farmers in all parts of Canada. In addition a number of valuable animals have, during the past year, been sent to certain of the Branch Farms to help build up herds at these points. In one instance twelve head of pure-bred Ayrshires went to one point alone, the Experimental Station at Ste. Anne de la Pocatière. Experiments in the breeding and feeding of dairy cattle are rapidly being extended.

Sheep have been increased in numbers, and improved in quality and condition during the past year. This is in some measure the result of the utilization of our farm roadsides for pasture. This was in our case imperative owing to the unhealthy condition of the very small areas formerly used as sheep pastures. It must be admitted, however, that this method of herding is far too expensive to be commonly practised throughout Canada. Owing to the limited areas, only two breeds are maintained, Shropshires and Leicesters, but from these flocks a number of exceptionally fine breeding animals were distributed to the Branch Farms and to farmers.

Swine raising has again demonstrated itself as one of the best paying branches of the live stock work. Yorkshires, Berkshires, and Tamworths have been kept, from which herds again large numbers of young pure-bred animals have been sold for breeding purposes. Although most of the feeding experimental work with swine was discontinued owing to the utilization of part of the piggeries for the cattle, yet a few valuable experiments have been conducted during the past year.

Much experimental work has been conducted to determine, if possible, the most advantageous methods of producing and marketing dairy products. A few new lines have been added to this work, and the returns from the manufacturing of butter, Cheddar cheese, several kinds of soft cheeses, including cream and Coulommier cheese,

pure milk and certified milk, have been most satisfactory. This department of the Experimental Farm alone has shown gross receipts of over $11,000. The testing for efficiency and economy of various types of milk pails, two types of milking machines, and many correlated problems in dairy work, were well under way, but unfortunately had to be postponed owing to the loss of buildings and equipment. With the completion of the new buildings and their full equipment, this work will be taken up again, and it is hoped that much information of economic value will be acquired.

BUILDINGS FOR ANIMAL HUSBANDRY DIVISION, EXPERIMENTAL FARM.

During the summer of the past fiscal year a small amount of building to improve the facilities of this division was conducted. This included the repairing and renovating of part of the barns which were later destroyed by fire. There was also erected a cheap but efficient shed for the feeding of sheep on experimental work. A cottage was moved from its old site to provide a site for a dairy building which will probably be erected during the coming year.

Immediately after the fire which destroyed the above-mentioned barns, work was commenced in the clearing away of refuse and the relaying of new foundations on the same site. The work of rebuilding was hastened to such an extent that the two large wings of the main barn were closed in before the end of the calendar year, thus providing good shelter for a large part of the dairy herd. With the completion of these new barns during the coming year there will be at the Central Farm one of the best dairy barns in Canada, which will undoubtedly be studied carefully by the many farmers visiting this Farm.

ASSISTANCE GIVEN TO BRANCH FARMS.

By visiting the Branch Farms throughout Canada the Animal Husbandman has been brought more closely in touch with their work. This has already tended to assist the Superintendents under the supervision of the Director in laying out new lines of live stock experimental work and in better conducting and systematizing such work as has been in progress for some time.

The work of planning the new barns and other live stock buildings required for the Branch Farms and new Stations has also been done largely by the Animal Husbandry Division. In many cases the buildings, under the direction of the Director, were planned almost in all details by this division, but in most cases the general layout, together with the necessary details, was submitted to the Public Works Department. Through this means of co-operation, building work on the Branch Farms was largely facilitated during the year, and many cheaply constructed but thoroughly satisfactory farm buildings were completed and are now in use as reported elsewhere. These improved buildings on the Branch Farms not only have given better facilities for the conducting of live stock experimental work, but have already shown a marked beneficial influence on the farmers of the neighbourhood and province, wherein the Farms are situated, in that these buildings are being copied, in their essentials at least, by a large number of both small and extensive stock breeders.

The Poultry Division.

Since the 1912 report the Poultry Division has been reorganized and placed in a position similar to that of the other divisions on the Experimental Farm, with a Dominion Poultry Husbandman in charge. The work of the division also is extended to the various Branch Farms and Experiment Stations.

Prior to 1913, no poultry, except for local use, was kept at the Branch Farms, but during this year poultry work has been added to the following Farms and Stations: Agassiz, B.C.; Invermere, B.C.; Lacombe, Alta.; Indian Head, Sask.; Brandon, Man.; Fredericton, N.B.; Nappan, N.S.; Kentville, N.S.; Charlottetown, P.E.I.

The plant and equipment at the Branch Farms and Stations consist of several acres of land, preferably in or at the edge of the orchard, from 100 to 400 laying hens and various styles of houses to accommodate these; incubators and brooders to rear enough birds to replenish the laying stock and have some for sale to farmers for breeding purposes. At most of the plants there is a man appointed to take charge of the poultry and bees, and it is expected that before another year each Branch Farm and Experiment Station will have a well-equipped poultry plant large enough for one man to handle, with a good practical poultryman in charge.

Practically all the experimental work is being carried on at the Central Farm, as here more equipment is provided for the purpose, but experiments of a special or local character are being conducted at the Branch Farms, and through these Branch Farms the methods that have proven satisfactory and advocated by the division will be demonstrated.

The experiments this year have included a continuation of those reported in 1912, namely, the open and closed front houses, feeding for egg production, feed best suited for brooder chicks and rearing stock. The findings have further emphasized the value of fresh air in the poultry house, and have shown that a dry cold is not detrimental to the health of the laying stock. This was especially indicated during the winter of 1913-14. A pen of Single Comb White Leghorns was kept in a 10 by 14 house, the front or south side of which was one-third glass and two-thirds cotton. During three days when the maximum temperature registered thirty, twenty-eight and twenty-five degrees below zero the birds did not suffer because of the extreme cold and comparatively open house, which was evidenced by the fact that there was not a frozen comb among the females, nor did the egg-yield diminish during the cold snap. These temperatures are too low to keep male birds from freezing, and experiments are being conducted to determine the best means of keeping their combs from freezing during the cold dips.

The various feeding experiments above referred to are still being continued, results of which will be published in bulletin form as they are completed.

Among the new experiments this year are: Pedigree work to show the value of heredity in egg production; causes and remedies for mortality among incubator and brooder chicks; investigation of poultry diseases; value of Indian Runner ducks to produce table eggs; value for poultry food of screenings and weed seeds as taken from the elevators at Port Arthur; artificial hatching of Turkey eggs; turkey rearing and their diseases; goose and duck culture, etc.

Laying strains of several utility breeds are being developed at the Central Farm, the cockerels from which are supplied the Branch Farms and Experiment Stations. Practically no eggs or stock are being sold from the Central Farm, but as soon as the Branch plants have developed their departments, stock and eggs from them will be available to the farmers and poultrymen.

During the year three new buildings have been erected at the Central Farm: A cockerel house 10 by 70 feet; an experimental breeding house 12 by 100 feet; an experimental feeding house and supply house 30 by 40. There has also been added to the plant a fourteen-acre section of park land on the edge of Dows lake, which will be utilized for turkeys and waterfowl experiments.

Tobacco Division.

The experimental work of the Tobacco Division was continued during the season of 1913-14 on the Experimental Stations at St. Jacques l'Achigan and at Farnham, in the province of Quebec, and at Harrow in Ontario, in addition to the work carried on at the Central Experimental Farm, Ottawa.

As in former years, the area at the Central Farm used for experimental work with tobacco was especially devoted to the production of seed for distribution. The number of varieties cultivated and studied was considerably increased in view of certain work in breeding and selection begun this year, from which it is hoped to establish and maintain in Canada types of a superior quality and of a more fixed character. The results of this work in 1913 were most encouraging, in spite of a rather unfavourable season, especially with the yellow tobaccos, certain varieties lately introduced proving earlier in ripening than any so far tried in Canada.

An abundant crop of seed enabled the division to fill practically all requests for samples. The total number sent out was about 4,000.

The crop of tobacco at the St. Jacques l'Achigan Station, as at all points in the north central part of Quebec, was considerably reduced by drought and by the cold weather which prevailed during most of June. The leaf was short and a little too thick for first-class wrappers. However, in spite of the growth being kept back at first, the crop ripened well and was of good colour. The varieties grown were Comstock, Aurora and Cuban.

At Farnham, owing to the greater size of the Station, the amount of experimental work was larger. The varieties tested were Comstock, Spanish, Havana Seed Leaf, Yamaska, Big Ohio x Sumatra, Cuban and Canelle.

Among these, those giving the most interesting results were the Comstock, Havana Seed Leaf and Yamaska. The Cuban and the Brazil, owing to unfavourable weather conditions soon after transplanting, gave a crop rather uneven in development and scarcely mature. The Big Ohio x Sumatra, though giving good results on well-cultivated land, did not seem to do so well on land freshly broken, especially from old meadow. The Yamaska gave a crop of good texture and of uniform development. There was a very large proportion of a length suitable for wrappers (20-inch to 24-inch), and it seemed better acclimatized and more fixed in type than the Big Ohio x Sumatra.

Unfortunately, an early frost completely destroyed some 2,500 plants which had been selected for seed on different parts of the plantation. This, in addition to the destruction of the seed itself, delayed a year the work of individual selection and hybridization, which was in progress.

The tobacco crop on the Station at Harrow, Ont., was completely destroyed by the hail storm of August 3, 1913. This prevented the publication of the results which it was hoped to obtain from a systematic test of chemical fertilizers on tobacco. In yellow tobaccos, it was impossible to draw conclusions with any degree of certainty, from the comparative test of known varieties, as to their earliness and tendency to produce a leaf of the desired colour.

In the work of sorting the crop grown at St. Jacques l'Achigan, carried on at the Central Farm, Ottawa, a considerable saving of labour was effected by the use of graduated tables much more simple to handle than those employed at Farnham and St. Cesaire.

Experimental Station, Charlottetown, P.E.I.

The season was a late one, owing to dull and cold weather in May and June. The season was, on the whole, favourable to large yields and, for the early grain, the harvesting weather during September and early in October was good. The latter part of October was very wet and little of the later grain was saved until November, much of it in a damaged condition. Fruits and vegetables gave very good returns.

With the exception of some portable poultry houses and small outbuildings, no new buildings were erected at the Charlottetown Station this year.

Experimental Station, Fredericton, N.B.

The only experimental work carried on at this Station during the year was a series of tests of fertilizers on potatoes. Efforts were concentrated on clearing, breaking and draining, and on the erection of buildings. Of the latter, a horse barn was got well under way, while a cattle barn and a dairy barn have been completed, except painting. Building operations will be continued during the coming year, and it is hoped to carry on considerable experimental work as well.

Experimental Farm, Nappan, N.S.

The growing season at Nappan was rather a backward one. Seeding commenced somewhat earlier than in 1912, but subsequent cold wet weather made germination slow. August and September were favourable for growth and for the harvesting of early-sown grains, but that sown later was harvested when the rains of October set in, making much of it almost unfit for feed.

The apple crop was below the average in quantity and quality, due, no doubt, to lack of sunshine.

Experimental Station, Kentville, N.S.

Although warm weather during April started growth early, cold weather following retarded its progress during the first half of May, and the average temperature during May, June, July and August was below normal, while the rainfall was unusually light, the crops suffering considerably from lack of moisture.

Some 14½ acres were set out in orchard, and plantations of grapes and small fruits were made. Ornamental trees and shrubs were also planted and an area seeded down for lawns.

The demonstration orchard work begun last year was carried on.

Clearing and breaking were continued and some field crops grown, although no experimental work with cereals was attempted.

Experimental Station, Ste. Anne de la Pocatière, Que.

Preparatory work at this Station was continued in the way of draining and fencing, and field crops were grown, principally Banner oats.

The land area at this Station was increased by about 125 arpents during the year.

The spring was very dry which, with the depth to which the frost had reached, delayed vegetation considerably. Temperatures throughout the season were below normal. Some 3½ acres were planted in orchard, and further plantations will be made during the coming year.

A horse stable and cow barn were erected during the year, and are complete with the exception of painting.

Building, draining and fencing operations will be continued next year and some experimental work begun.

Experimental Station, Cap Rouge, Que.

Spring opened very early and all trial plots of cereals were sown by the end of April. Later-sown grain suffered from drought but that sown early gave a heavy crop throughout the district. Results in horticulture were very good.

During the year a horse stable was built and a water system installed.

A considerable area was tile-drained in the autumn, a gasoline traction ditcher being used to do the trenching in large part.

Experimental Farm, Brandon, Man.

The spring of 1913, while not early, was not retarded by cold weather, and seeding made rapid progress. While the dry summer prevented heavy crops being harvested, the yield was a good average one, of excellent quality.

During the year a piggery, a cottage and an office building were erected.

Experimental Farm, Indian Head, Sask.

Seeding commenced about the middle of April under favourable conditions, and growth was rapid. The crop ripened early and was cut without damage from frost. Most of it was threshed before the rains set in in October.

Considerable improvements were made in the ornamental grounds, and new plantations of fruit trees were made.

A cottage for the herdsman was built this year.

Experimental Station, Rosthern, Sask.

The season of 1913 was drier than either 1911 or 1912. Crops did not suffer to any extent, however, as there was considerable rainfall during July and August. They were harvested in good condition without damage from frost.

Experimental Station, Scott, Sask.

The season here opened early, grain being sown on April 8. Although cool, dry weather followed, there was sufficient moisture in the soil for good growth. Harvest was early and favourable; fall weather permitted threshing to be completed without delays. The yield was a fair one throughout the district, and the quality excellent.

An experimental building was erected this year and electric lights installed in all the buildings on the Station.

Experimental Station, Lethbridge, Alta.

Most of the experimental work on the "dry farm" was, as usual, duplicated on the irrigated land. In the former case, dry weather in May and June did considerable injury to the crops both on the Station and throughout the district. The results with vegetables and small fruits were good, and apples were borne on some eighty-five trees, the first produced on the Station, with the exception of a small crop off one crab tree last year.

No buildings were erected this year. A septic tank was installed. The Station buildings were wired for electric lighting, and a water system was put in.

Experimental Station, Lacombe, Alta.

Seeding commenced on April 10, and although cool and dry weather followed until May 10, the weather after that was most favourable for growth. These favourable conditions continued throughout the season until harvesting and threshing were finished.

Small fruits and vegetables did well, and the first apples on the Station were produced this year.

No new buildings were erected at the Lacombe Station. Fairly extensive dairying operations were carried on, as well as feeding for beef, and work with poultry.

Experimental Farm, Agassiz, B.C.

The season at Agassiz was wet and cool, hence the cereal crops were not of as good quality as would otherwise have been the case.

An orchard of about four acres was planted and the usual variety testing of vegetables and fruits carried on.

The dairy herd did well, as did also the swine and the poultry.

Some small buildings were erected, such as an apiary shed, poultry houses, sheep shed, etc.

Experimental Station, Invermere, B.C.

Some 700 trees were planted here and preparations made for further plantations next year.

No experimental work with cereals was carried on, but some field crops were grown.

A house for the superintendent and one for the foreman were put up.

EXPERIMENTAL STATION, SIDNEY, B.C.

Clearing operations were continued, some 50 acres being cleared, stoned, levelled and ploughed. Extensive draining operations were carried on, together with fencing and laying out of avenues and roads.

Large plantations of ornamental trees and shrubs, both imported and native, were made, and some experimental work with vegetables and small fruits carried on.

SUBSTATIONS.

Experimental work was carried on at Grouard, Fort Resolution and Fort Providence, in Alberta, and at Kamloops in British Columbia. With the exception of the last-named the results were satisfactory at these points, considering the difficulties due to situation and climate.

FIELD CROPS OF THE DOMINION.

There was a marked difference between the weather conditions in the western and in the eastern portions of the Dominion during the growing season of 1913.

In the west, conditions for sowing, growth, harvesting and threshing were most favourable, the only drawback being a rather light rainfall in some localities.

In Ontario, Quebec and parts of the Maritime Provinces, on the other hand, the crops were adversely affected by drought and by rainy weather during harvest.

Taking the Dominion as a whole, the principal grain crops show a markedly increased yield over 1912, while hay, clover, roots and potatoes show a decrease.

Of the following tables compiled from data given by the Census and Statistics Monthly, the first gives the areas and the final estimates of yield and value of the principal field crops of Canada for 1913. In the second table, the same data are given for 1912, for purposes of comparison. It will be seen that, in 1912, from a total area under field crops of 42,216,820 acres, a harvest was obtained valued at $635,473,100 while in 1913 there were produced from 46,390,430 acres, crops worth $709,230,500.

AREAS AND ESTIMATES of Yield and Value of Field Crops, 1913.

Crop	Area.	Yield per Acre.	Total Yield.	Weight per Bushel.	Average Price.	Total Value.
	Acres.	Bushels.	Bushels.	Lbs.	$	$
Fall Wheat	970,000	23.29	22,592,000	60.25	0.80	18,185,000
Spring Wheat	10,045,000	20.81	209,125,000	60 37	0.66	138,277,000
All Wheat	11,015,000	21.04	231,717,000		0.67	156,462,000
Oats	10,434,000	38.78	404,669,000	36.48	0.32	128,893,000
Barley	1,613,000	29.96	48,319,000	48.41	0 42	20,114,000
Rye	119,300	19.28	2,300,000	55.66	0.66	1,524,000
Peas	218,980	18.05	3,951,800	60.00	1.11	4,382,000
Buckwheat	380,700	21.99	8,372,000	50.32	0.64	5,320,000
Mixed grains	473,800	33 33	15,792,000	44.74	0.55	8,685,000
Flax	1,552,800	11.30	17,539,000	55.79	0.97	17,084,000
Beans	46,600	17.19	800,900	59 70	1.88	1,505,000
Corn for husking	278,140	60.30	16,772,600	56.27	0.64	10,784,300
Potatoes	473,500	165.88	78,544,000		0.49	38,418,000
Turnips, &c	186,400	358.30	66,788,000		0.28	18,643,000
Hay and Clover	8,169,000	1.33 (ton)	10,859,000		11 48 (ton)	124,696,000
Fodder Corn	303,650	8.62	2,616,300		4.78	12,506,000
Sugar Beets	17,000	8.71	148,000		6.12	906,000
Alfalfa	93,560	2.54	237,770		11.85	2,816,200

AREAS AND ESTIMATES of Yield and Value of Field Crops, 1912.

Crops.	Area.	Yield per Acre.	Total Yield.	Weight per Measured Bushel.	Average Price.	Total Value.
	Acres.	Bush.	Bush.	Lbs.	$	$
Canada—						
Fall wheat	781,000	20·99	16,396,000	60·21	0·84	13,735,000
Spring wheat	8,977,400	20·37	182,840,000	58·90	0·60	109,787,000
All wheat	9,758,400	20·42	199,236,000	59·22	0·62	123,522,000
Oats	9,216,900	39·25	361,733,000	35·40	0·32	116,996,000
Barley	1,415,200	31·10	44,014,000	47·59	0·46	20,405,000
Rye	136,110	19·06	2,594,000	54·84	0·73	1,901,000
Peas	250,820	15·04	3,773,500	56·88	1·26	4,771,800
Buckwheat	387,000	26·34	10,193,000	47·62	0·62	6,337,000
Mixed grains	522,100	34·38	17,952,000	44·48	0·59	10,690,000
Flax	1,677,800	12·92	21,681,500	54·88	0·91	19,626,000
Beans	59,800	17·40	1,040,800	59·05	2·20	2,291,500
Corn for husking	292,850	56·58	16,569,800	55·67	0·62	10,325,100
Potatoes	472,400	172·19	81,343,000	....	0·39	32,173,000
Turnips, &c	217,400	402·51	87,505,000	.....	0·23	20,713,000
		Tons.	Tons.		Per ton.	
Hay and clover	7,633,600	1·47	11,189,000	.....	11·07	124,009,000
Fodder and corn	287,740	10·26	2,858,900	.....	4·74	13,557,500
Sugar beets	19,000	10·74	204,000	.....	5·00	1,020,000
Alfalfa	111,300	2·79	310,100	....	11·65	3,609,900

LIVE STOCK.

In live stock, as will be noted in the following table, an increase in numbers is recorded, except in the case of swine. For comparative purposes, the figures are given for 1909-1913, inclusive.

NUMBERS of Farm Live Stock, 1909-1913.

Live stock.	1909.	1910.	1911.	1912.	1913.
	No.	No.	No.	No.	No.
Canada—					
Horses	2,132,489	2,213,199	2,595,912	2,692,357	2,866,008
Milch cows	2,849,305	2,853,957	2,594,179	2,604,488	2,740,434
Other cattle	4,384,779	4,250,963	3,939,257	3,827,373	3,915,687
Sheep	2,705,390	2,598,470	2,175,302	2,082,381	2,128,531
Swine	2,912,509	2,753,964	3,610,428	3,477,310	3,448,326

HEALTH OF ANIMALS BRANCH.

CONTAGIOUS DISEASES DIVISION.

The officers of this branch have been engaged in the control of outbreaks of contagious disease, the inspection of all animals entering Canada, with the mallein testing of all horses not accompanied by satisfactory certificates of such test, the inspection of animals for export by sea, the supervision of the cleansing and disinfection of stock cars at large traffic centres, under the Animal Contagious Diseases Act, and the inspection of animals, meat and meat products in packing houses under the provisions of the Meat and Canned Foods Act.

Owing to the reappearance of Foot and Mouth Disease in Great Britain, it was necessary to reimpose, on November 17, the restrictions against the issuing of permits for importations of ruminating animals and swine therefrom. Subsequent developments indicate that it will not be possible to issue permits for some time to come.

Glanders shows a most gratifying decrease of nearly 50 per cent over last year's figures, the decrease being most marked in the western provinces where the disease has given so much trouble for many years and where 310 horses were slaughtered as compared with 604 in 1912-13. In Saskatchewan the figures have dropped from 722 in 1911 to 428 in 1912, this proportionate decrease being continued in 1913 when the total was 190. The number of horses slaughtered in the Dominion was 350, as compared with 638 last year. This result has only been achieved by most strenuous exertion on the part of our veterinary inspectors, who are often compelled to travel many hundreds of miles, in all sorts of weather, and to exist in the most primitive circumstances, when endeavouring to eradicate an outbreak among the horses of settlers living many miles from a railroad. All horses entering the country are either tested before being shipped or upon arrival at the boundary, and this ensures that the heavy expense of slaughtering and paying compensation for Canadian horses is not nullified by the reintroduction of infection from outside sources where compensation methods do not prevail.

Dourine has unfortunately been found to a marked degree in one district in southern Alberta, and the slaughter of probably 450 horses will be involved. The diagnosis of this insidious disease has hitherto been possible only by clinical examination, but our Pathologist in charge of the Veterinary Research Laboratory at Lethbridge, Dr. A. Watson, has been using a method of serum diagnosis which has proved of the very greatest benefit, and enables the disease to be successfully eradicated from infected herds, whether animals show symptoms of the disease or not. Many hundreds of tests have been made, and it is hoped that once the present large local outbreak is disposed of only the usual few isolated cases will be discovered. During the year 465 horses were destroyed, all in Saskatchewan and Alberta, as compared with 18 last year.

Mange in cattle and horses has been given the special attention of our veterinary officers in Alberta and Saskatchewan, who have also had a corps of range riders under them searching for infected animals on the open range. A large amount of dipping, both voluntary and at the order of the department, has been done. Horse Mange has been somewhat more prevalent in Ontario, and there has been a slight increase in the western provinces. The total number of horses found affected was 300, as compared with 126 last year, 1,500 animals being quarantined as against 712 last year. Cattle Mange has again shown a gratifying decrease, the number of animals found affected being 2,825, as compared with 3,321 last year, while it was only necessary to quarantine 67,500 as compared with 82,677 in 1912. The disease having been completely eradicated in the northern portion of the area under quarantine restrictions in Alberta, it was possible to lessen the quarantined area by the removal of the northerly boundary six townships south. If continued progress is made, further action along this line may be possible.

Sheep Scab fortunately continues to be practically non-existent, as only one small outbreak of the disease, in the province of Quebec, in which four animals were infected, was discovered. The disease was successfully eradicated and Canada is at the present time entirely free from this disease. Many thousands of sheep were imported in the western provinces and, as a precautionary measure, a thirty-day quarantine was imposed on all except those imported for immediate slaughter.

Hog Cholera, I regret to say, still occupies a large share of the attention of my officers, due to the persistence with which uncooked garbage is fed by some owners. Compensation is withheld in such cases as deliberate disregard of warnings is evident, but unfortunately in the majority of instances the outbreak is widespread before action can be taken. The disease has been largely reduced in Eastern Canada, but in the western provinces there is a marked increase. The policy of compulsory slaughter and disinfection of premises is being energetically followed, and I trust that the figures for the next year will show a marked decrease. It is interesting to note that while the value of hogs dying or slaughtered on account of Hog Cholera in Canada during the past year is well under $100,000, the value of hogs lost in the United States from this cause in the same period is estimated at $100,000,000. During the year, 9,950 hogs, as compared with 8,466 last year, were destroyed, at a cost of $60,500 in compensation, as compared with $52,785.94 during 1912.

Rabies has given very little trouble, it being only necessary to quarantine 100 animals, of which 58 were dogs, in Ontario, and 20 dogs in British Columbia.

Tuberculosis has, as in former years, been dealt with only by testing import and export cattle for breeding purposes, those placed under the supervision of this branch, those exported for breeding purposes to British Columbia, and by furnishing tuberculin free of charge to private practitioners on condition that they report the results of tests on charts supplied for the purpose; 5,050 tests were applied by officers of this branch, as compared with 3,034 the previous year, the percentage of reaction being 8 per cent against 1¼ per cent in 1912; 4,750 tests were applied by private practitioners, as compared with 3,839 the previous year, the percentage of reaction being 7 per cent, as compared with 4 per cent in 1912.

Dr. Hadwen has been engaged in work in connection with Redwater at the Research Laboratory at Agassiz, B.C., while Dr. Watson, at Lethbridge, has succeeded in establishing a satisfactory serum test for Dourine, which has proved most useful.

A new Quarantine Station has been established at Northgate, Sask., to facilitate the entry of animals over the new railway entering Canada at that point.

Land has been purchased near Lévis, Que., for a new Animal Quarantine Station at that point, and every effort is being made to have up-to-date buildings constructed in time to cope with importations oversea.

At the request of the Provincial Government of Prince Edward Island, a system of inspection of all foxes entering that province has been inaugurated, with a view to protecting the health of the valuable animals used in connection with fur raising. Blackleg and Anthrax Vaccine have been prepared at the Biological Laboratory, and sold to the public at a nominal cost. A very large demand for the former has been experienced, while the absence of outbreaks of Anthrax has fortunately limited the applications for the latter vaccine.

Examinations of the water supplies in the various public buildings in Ottawa have been periodically made and the results transmitted to the Public Works Department, while assistance has also been rendered to the Finanace Department in connection with the examination of the results accruing from the various methods of sterilizing bank notes.

MEAT AND CANNED FOODS DIVISION.

The officers of this division have had an exceedingly busy year.

The slaughter of cattle shows an increase of approximately 75,000 over the preceding twelve months.

The increase in the slaughter of hogs reached about 200,000, which is due alone to increased production in the western provinces, as the slaughter in Ontario and the east shows a decrease of 154,000, which is met by an increase of 354,000 in Manitoba and the west.

The slaughter of sheep also shows an increase of about 47,000.

Good prices were paid to producers for meat food animals throughout the year.

Owing to the increased amount of work and the advancement in our methods of inspection it became necessary to increase the number of inspectors, both veterinary and lay.

The demands for meat foods that have passed inspection are increasing rapidly, so much so that it is somewhat difficult to estimate future needs.

The managements of the different establishments have shown a commendable desire to observe the requirements of the Act and the regulations. Our instructions concerning sanitary conditions are being well observed.

Large expenditures are being made in renovating some of the older plants in order that they may be brought into conformity with requirements.

Establishments which have been recently completed have been construct d in accordance with the latest sanitary ideas and are a credit to their owners and to the Dominion.

Many new establishments engaged in packing fruit and vegetables have been erected during the past year and have been in active operation.

Weather conditions for the production of fruit and vegetables were favourable, in consequence of which there was a large pack of this class of food, with a corresponding lowering of prices for the finished article.

THE PUBLICATIONS BRANCH.

By the distribution of the reports and bulletins prepared by the purely agricultural branches of the department and by preparing and issuing the "Agricultural Gazette of Canada," the Publications Branch is charged with presenting to the public the activities of the Department of Agriculture.

Up to the 17th November, 1913, this branch embraced the work of the Canadian Commissioner of the International Agricultural Institute, after which date the division of the latter was separated therefrom. This report, therefore, has reference only to the work of the Publications Division until the separation occurred, and the Publications Branch thereafter.

During the year there were sent to the respective mailing lists fifty-four new publications of the Department of Agriculture, two evidences given before the Select Standing Committee of the House of Commons on Agriculture and Colonization, besides small editions of the three monthly bulletins issued by the International Agricultural Institute at Rome. The publications thus sent out included eight reports, twenty-eight bulletins, ten circulars, eight pamphlets, three leaflets, twelve numbers of the Canadian Compilation of International Agricultural Institute publications, and three numbers of the Agricultural Gazette of Canada. Besides publications sent to persons on the mailing lists many, both old and new, were mailed in response to day-to-day applications.

The total number of pieces mailed numbered 1,069,433, made up as follows: To mailing lists, 180,548 copies of reports, 542,350 copies of bulletins, including evidence and monthly publications, and 93,000 copies of circulars and leaflets; to individual applicants, 13,465 reports, 196,553 bulletins and 9,082 circulars and leaflets, and to Branch Farms and Stations and other outside Government offices, 5,640 reports, 26,126 bulletins and 2,670 circulars and leaflets.

Early in the year a reclassification of the Experimental Farm's mailing list was undertaken. Heretofore this list, which contains some sixty thousand names, included farmers, gardeners, and others engaged in all kinds of agriculture. The reclassification undertaken has been to distribute these amongst the other lists, which are subject lists, so that only subject lists would be maintained. The method of reclassification has been by correspondence. Double post cards were mailed to the names on the Experimental Farms' list. The return portion provided for the expression of a preference of subjects. As these are received the respective address stencils are transferred from the original list to the list or lists desired. Owing to the failure of many to respond to the first appeal the sending of a second card has been necessary, entailing much extra labour.

During the year three new machines for addressing, blanking and the embossing of address stencils have been installed and are giving satisfaction.

Much work in multigraphy has been done. For every new publication issued there has been a press notice prepared and sent out to about six hundred news and agricultural papers. These, together with a number of circular letters, made a total of forty-five thousand copies thus printed and distributed.

An unusual duty during the late months of the year was the commencement of distribution of the book "Fodder and Pasture Plants" to public schools, agricultural schools and colleges, and agricultural officials. As the addressing could not be done by machinery and as each copy required to be stamped inside and the institution's or the official's name entered therein, extra hands had to be employed.

The Agricultural Gazette of Canada made its first appearance in January, 1914. This is a monthly publication designed to chronicle the activities of the Dominion and Provincial Departments of Agricultural and other duly organized agricultural bodies, and to review agricultural legislation in Canada.

The permanent staff employed in the Publications Branch included six clerks for the year, three clerks for three and a half months, two messengers and two packers for the year and the services of temporary help equal to almost five continuous employees.

III.—PATENTS OF INVENTION.

The following tables show the transactions of the Patent Office, Department of Agriculture, from April 1, 1913, to March 31, 1914:—

Applications for Patents.	Patents and Certificates Granted.			Caveats.	Assignment of Patent	Notices under Section 8.
	Patents.	Certificates.	Total.			
8,359	7,918	1,323	9,241	354	3,432	923

PATENT OFFICE FEES FOR YEAR 1913-14.

Month.	Notices.	Patents.	Assignments.	Certified Copies.	Caveats.	Sundries.	Subscriptions.	Total.
1913.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
April	172 00	17,394 55	643 30	352 20	165 15	13 75	83 20	18,824 15
May	174 00	16,821 65	666 95	278 27	162 50	27 00	45 95	18,176 32
June	159 00	17,554 42	699 60	263 05	160 85	18 24	28 90	18,884 06
July	156 00	17,226 73	554 05	311 45	180 00	32 00	21 20	18,481 43
August	131 90	15,398 35	639 80	226 70	105 00	10 50	15 80	16,528 05
September	122 00	15,629 77	509 45	371 40	160 15	6 00	19 20	16,817 97
October	139 00	15,957 55	783 35	285 68	140 15	17 00	44 15	17,366 88
November	161 90	15,135 95	621 20	253 70	150 00	10 90	86 90	16,420 55
December	169 90	15,447 30	610 15	252 15	174 90	9 00	57 50	16,720 90
1914.								
January	142 90	17,655 88	664 25	315 35	185 65	20 50	20 85	19,005 38
February	144 00	16,336 37	721 95	338 72	129 90	25 25	13 40	17,709 59
March	172 00	18,510 82	752 45	345 00	235 00	22 00	29 16	20,066 43
	1,844 60	199,069 34	7,866 50	3,593 67	1,949 25	212 14	466 21	215,001 71

The total number of patents granted to Canadian investors was 1,334, and were distributed among the provinces of the Dominion as follows:—

Ontario.	Quebec.	British Columbia.	Manitoba.	Alberta.	Saskatchewan.	New Brunswick.	Nova Scotia.	Prince Edward Island.	Yukon.
607	278	157	115	46	59	30	39	2	1

Patents issued to residents of Canada, with the ratio of population to each patent granted:—

Provinces.	Patents.	One to Every
British Columbia	157	2,500
Manitoba	115	3,962
Ontario	607	4,157
Quebec	278	7,206
Alberta	46	8,145
Saskatchewan	59	8,346
Yukon	1	8,512
New Brunswick	30	11,729
Nova Scotia	39	12,624
Prince Edward Island	2	46,864

NATIONALITY OF FOREIGN INVENTORS.

Countries.	1909.	1910.	1911.	1912.	1913.	1914.
United States of America	4,602	5,021	4,885	4,997	4,964	5,220
Great Britain and Ireland	346	392	359	506	495	558
Germany	215	241	304	336	307	300
Australia	58	60	77	99	75	76
France	59	75	97	108	100	115
New Zealand	36	37	33	46	47	50
Sweden	40	39	54	52	64	40
Belgium	17	20	25	20	23	33
Austria	33	23	20	24	40	35
Italy	10	8	12	6	16	14
Switzerland	11	12	26	23	20	22
Denmark	8	8	5	14	15	16
Transvaal	12	12	16	10	7	1
Hungary	5	7	6	6	6	5
Russia	4	14	18	6	17	13
Norway	9	18	20	17	10	32
Newfoundland	1	2	3	1	2	1
Netherlands	4	0	0	...	...	7
Mexico	4	11	7	10	8	7
Cape Province	1	0	3	4	4	1
Cuba	0	1	5	1	1	9
Spain	2	1	3	...	...	1
Chile	1	0	1	...	1	0
Finland	1	0	1	...	1	0
Portugal	1	0	0	...	...	0
Roumania	1	0	1	1	...	0
Grand Duchy of Luxemburg	1	0	0	...	...	0
Algeria	0	0	1	...	...	0
Japan	1	2	0	2	2	1
India	0	0	5	3	1	7
Natal	0	0	0	1	2	0
Nicaragua	0	0	1	...	...	0
Brazil	0	0	2	1	...	1
Turkey	0	0	0	...	...	0
Poland	3	2	0	...	...	0
Holland	0	2	11	8	7	8
Argentine Republic	4	5	1	1	...	2
Panama (Canal Zone)	2	0	0	3	...	3
Egypt	...	1	1	...	...	1
Southern Rhodesia	...	1	...	...	...	0
Peru	...	...	...	3	2	0
Hawaii	...	...	...	3	3	0
Venezuela	...	...	...	2	1	1
Trinidad	...	...	...	1	...	0
Porto Rico	...	...	...	1	2	0
Tunis	...	...	...	...	1	0
Ceylon	...	...	...	...	1	0
Straits Settlements	...	...	...	...	1	0
Philippine Islands	...	...	...	...	...	1
Canary Islands	...	...	...	...	...	1
Java	...	...	...	...	...	1
Channel Islands	...	...	...	...	...	1

Statement of the number of patents issued under the Act, on which the fees are paid for periods of six, twelve or eighteen years, at the option of the patentee; and of patents on which the certificates of payments of fees were attached after the issue of patents originally granted for periods of six and twelve years:—

Period for which Fees were paid on First Issue.			Patents on which Certificates were attached after issue.		Reissues.		
6 years.	12 years.	18 years.	6 years.	12 years.	6 years.	12 years.	18 years.
7,867	4	26	1,230	93	19	1	1

Comparative Statement of the transactions of the Patent Office from 1872, when foreign applications were first admitted, to 1914, inclusive.

Year.	Applications for Patents.	Patents and Certificates Granted.			Caveats.	Assignments of Patents.	Fees received.
		Patents.	Certificates.	Total.			
							$ cts.
1872	752	671		671	184	327	18,651 65
1873	1,124	1,016	10	1,026	171	547	28,889 64
1874	1,376	1,218	27	1,245	200	711	32,962 48
1875	1,418	1,266	57	1,323	194	791	33,380 82
1876	1,548	1,337	46	1,383	185	761	34,429 38
1877	1,445	1,277	75	1,352	168	811	33,656 30
1878	1,428	1,172	96	1,268	172	832	31,992 42
1879	1,358	1,137	101	1,238	203	728	30,868 88
1880	1,601	1,252	156	1,408	227	855	38,334 99
1881	1,956	1,510	222	1,732	226	997	48,083 95
1882	2,266	1,846	291	2,137	198	955	55,854 79
1883	2,641	2,178	291	2,469	242	1,052	67,625 48
1884	2,681	2,456	167	2,623	238	1,772	63,257 47
1885	2,518	2,233	214	2,447	222	1,075	62,176 23
1886	2,776	2,610	250	2,860	187	1,322	67,176 23
1887	2,874	2,596	254	2,850	219	1,335	67,940 21
1888	2,747	2,257	282	2,539	240	1,159	65,246 51
1889	3,279	2,725	356	3,081	221	1,437	78,046 72
1890	3,560	2,428	369	2,797	248	6,207	84,150 78
1891	3,233	2,343	393	2,736	215	1,231	77,723 63
1892	3,176	3,417	415	3,832	242	1,500	77,216 76
1893 (only 10 months)	2,614	3,153	292	3,445	229	1,345	63,850 19
1894	3,291	2,756	412	3,218	301	1,445	80,682 56
1895	3,387	3,074	422	3,496	343	1,550	86,358 48
1896	3,728	3,488	413	3,901	306	1,420	93,532 52
1897	4,300	4,013	284	4,297	377	1,551	102,117 92
1898	4,200	3,611	262	3,873	363	1,657	99,361 95
1899	3,305	3,151	412	3,563	311	1,467	107,261 56
1900	4,628	4,522	482	5,004	283	1,914	113,852 46
1901	4,817	4,766	551	5,317	302	2,323	120,064 37
1902	5,301	4,391	510	4,901	317	2,339	129,896 82
1903	5,912	5,673	432	6,105	328	2,384	141,363 81
1904	6,061	6,091	517	6,607	303	2,472	145,896 10
1905	6,355	6,111	536	6,647	300	2,576	152,085 45
1906 (only 6 months)	2,857	2,378	271	2,649	137	1,232	69,700 46
1907	7,077	6,121	634	6,755	285	3,003	169,548 78
1908	7,406	6,774	744	7,518	317	2,900	178,482 49
1909	7,239	6,395	827	7,222	319	3,001	176,692 05
1910	7,789	7,223	1,010	8,233	448	3,147	194,571 54
1911	8,037	7,249	1,002	8,251	406	3,356	200,164 41
1912	8,293	7,399	1,113	8,512	348	3,725	207,762 77
1913	8,681	7,502	1,199	8,701	353	3,741	218,125 02
1914	8,359	7,918	1,323	9,241	354	3,432	215,001 71

The total number of reports issued by the examiners during the year was 12,742, an increase of 1,191, and 21 patents were surrendered and reissued.

Out of the total number of patents granted by this office during the year there were 5,220 issued to inventors or assignees resident in the United States, being 66 per cent of the whole issue.

This branch of my department continues to receive the official reports of patents from Great Britain, Australia, New Zealand, United States, Mexico, Portugal, Italy, Belgium, France and Japan, in addition to other periodicals of a scientific nature, in exchange for the Canadian Patent Office Record.

There were 2,142 patents brought under the conditions of the compulsory license clause, section 44 of the Patent Act, an increase of 235 over the preceding year.

The number of notices under section 8 of the Patent Act was 923.

IV.—COPYRIGHTS, TRADE MARKS, INDUSTRIAL DESIGNS AND TIMBER MARKS.

STATEMENT of fees received by the Copyright and Trade Mark Branch from April 1, 1913, to March 31, 1914.

Months.	Trade Marks.	Copyrights.	Designs.	Timber Marks.	Assignments.	Copies.	Total.
1913.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
April	3,599 40	155 00	95 00	2 00	41 00	34 25	4,091 15
May	3,946 85	157 90	95 00	.....	64 50	56 75	4,321 00
June	4,004 63	180 00	107 00	16 00	48 00	26 60	4,382 23
July	3,198 00	141 00	75 00	.....	63 00	33 65	3,510 65
August	3,165 12	146 50	70 00	2 00	35 00	59 00	3,477 62
September	4,250 25	194 50	40 00	8 00	27 00	26 85	4,546 60
October	3,964 05	161 50	60 00	6 00	33 90	66 50	4,291 95
November	3,274 95	204 50	86 00	40 00	27 10	12 75	3,645 30
December	3,540 50	155 35	112 50	26 00	54 00	22 50	3,910 85
1914.							
January	4,205 35	142 47	45 00	42 00	67 00	24 00	4,525 82
February	3,635 15	168 20	75 00	6 00	34 00	61 50	3,979 85
March	4,509 36	203 50	82 00	12 00	41 90	42 40	4,891 16
	45,293 61	2,010 42	942 50	160 00	536 40	466 75	49,574 18
Refunds	8,016 20	53 50	79 50	.....	3 00	5 50	8,157 70
	37,277 41	1,956 92	863 00	160 00	533 40	461 25	41,416 48

The particulars of the registrations made by the Copyright and Trade Mark Branch of the Department of Agriculture during the year ended 31st March, 1914, are as follows:—

I. Copyrights—		
Full Copyrights without Certificates	1,469	
Full Copyrights with Certificates	207	
Temporary Copyrights without Certificates	62	
Temporary Copyrights with Certificates	1	
Interim Copyrights without Certificates	92	
Interim Copyrights with Certificates	4	
Assignments of Copyrights	20	
		1,855
II. Trade Marks		1,378
Renewals of Specific Trade Marks		56
Assignments of Trade Marks		215
III. Industrial Designs		165
Renewals		9
Assignments		23
IV. Timber Marks		57
Assignments		3
Total registrations		3,761

The following table shows a comparative statement of the business of this branch from 1903 to 1913, inclusive:—

Year.	Letters Received.	Letters Sent.	Copyrights Registered.	Certificates of Copyrights.	Trade Marks Registered.	Industrial Designs Registered.	Timber Marks Registered.	Assignments Registered.	Fees Received.
1903	2,687	3,211	900	176	557	88	23	272	18,086 25
1904	2,858	3,293	1,106	228	621	107	25	118	20,647 30
1905	3,367	3,902	1,130	189	661	139	22	154	23,706 75
1906	5,340	5,193	1,228	169	1,119	125	47	282	33,107 10
1907	4,475	4,353	1,140	175	848	182	33	136	30,073 20
1908	6,647	4,980	1,416	170	892	162	44	343	37,514 00
1909	6,320	5,750	1,535	171	1,059	143	108	174	38,071 31
1910	6,411	7,688	1,699	206	1,021	118	39	286	42,153 76
1911	7,027	7,091	1,593	213	1,212	149	39	230	46,327 86
1912	9,435	9,322	1,760	205	1,315	128	15	559	51,043 21
1913	8,441	9,220	1,835	207	1,378	165	57	264	49,409 68

V.—PUBLIC HEALTH AND QUARANTINE.

This year has been an exceptionally heavy one. At the coast quarantine stations on the Atlantic and the Pacific no less than 582,687 persons have been inspected, whilst along the international frontier between this country and the United States it has been necessary to place seventeen temporary medical officers to prevent the introduction of disease into Canada.

The large number of 1,964 persons were admitted into hospital at the various stations. In every instance the disease was stamped out at the station, and so prevented from appearing inland.

Considerable improvements have been introduced in the service, and thus each year the country is more effectively protected against the entrance of communicable and other infectious diseases, while at the same time there is a steady reduction of the annoyances to individuals and damage to commerce in which earlier quarantine systems were constantly involved.

And so, by the skilled watchfulness of the officers working night and day upon our coasts and frontier, the people of Canada have been saved again this year from the inroads of epidemic disease from abroad.

Asiatic Cholera.—During the past year this disease has been reported in the following countries: Austria-Hungary, Bulgaria, Ceylon, China, Dutch East Indies (Borneo, Celebes, Java and Sumatra), India, Indo-China, Japan, Philippine Islands, Roumania, Russia, Servia, Siam, Straits Settlements, Turkey-in-Asia, Turkey-in Europe, and Zanzibar.

The greatest threatening of the spread of the disease came as an aftermath of the Balkan war, from the demoralization of armies, the soldiers of which brought the disease back from the front. The interest and intelligent activities of the various Governments concerned resulted in preventing its widespread extension.

Bubonic Plague.—This disease has been reported during the year in the following countries: Australia, Azores, Brazil, British East Africa, Ceylon, Chile, China, Cuba, Dutch East Indies, Ecuador, Egypt, India, Indo-China, Japan, Mauritius, Morocco, New Caledonia, Peru, Philippine Islands, Russia, Siam, Tripoli, Turkey-in-Asia, United States of America, and Zanzibar.

Two fatal cases of this disease occurred this year in the state of California, apparently contracted from plague-infected ground squirrels.

In Seattle, Wash., eighteen plague-infected rats have been found since September 30 last, the last two in the early part of this month. In consequence of this the Department of Marine was asked, in accordance with an agreement with them, to instruct all harbour-masters in British Columbia to enforce the breasting-out, etc., of vessels from Seattle as provided for in the special regulations governing such conditions, as detailed in my last annual report.

In Havana three cases of plague were reported on the 25th instant.

In Japan the last report received from Hong Kong under date the 14th instant gives 38 cases in Hong Kong, with 27 deaths. Cases are also reported from Kobe and Yokohama.

Smallpox.—This disease has again had an almost world-wide appearance during the year.

Cases of it were reported by incoming vessels at the quarantine stations at Grosse Isle, Que.; Halifax, N.S., three vessels; William Head, B.C., Sydney, N.S., and Louisburg, N.S., one vessel each. In all cases the disease was stamped out at the stations.

Epidemic outbreaks of this disease in the states of Washington, North Dakota, Minnesota, Michigan and New York led to the appointment of temporary medical quarantine officers to carry out international inspections on the frontier between this country and the United States as follows: In British Columbia, two medical officers and five guards; Manitoba, eight medical officers with one guard; Ontario, seven medical officers and ten guards.

This international quarantine on the southern frontier of British Columbia, of Manitoba, and at Niagara Falls has since been raised. I have still to keep it in force, however, on the Rainy river, at Fort Francis, Rainy River, and Emo: and at Sault Ste. Marie.

In compliance with the representations of the shipping interests, and to bring our regulations into conformity with what is the universally accepted period of incubation of smallpox, and accepted at the quarantine of other countries, they were modified by Order in Council on the 13th December last so as to fix fourteen days as the recognized period of incubation of, and observation for, smallpox.

Leprosy.—There are at present in the leper lazaretto at Tracadie, N.B., nineteen patients, ten males and nine females. Of these, fifteen are of French-Canadian origin, two of English, one of Icelandic, and one of Russian. There have been four deaths and two admissions during the year.

The two former inmates discharged apparently cured in 1912 remain in good health. Whether they may fairly be claimed as cures, under the treatment carried out, or whether they are instances of limitation of, or the production of auto-immunity against this disease, it will require more experience to determine.

At the leper lazaretto at Darcy Island, B.C., there is now a Chinese leper, admitted on the 19th instant.

Beri-beri.—Further observations have been made, and articles published during the year as to the etiology of this disease; and arguments have been stated for and against its causation by polished rice.

The consensus of opinion seems to be that, whilst a diet of rice deprived of its pericarp will produce neuritis, it by no means follows that there may not be still other types of endemic tropical neuritis, the causes of which remain undetermined.

Enteric Fever.—Anti-typhoid inoculations have increased in recognition and in favour during this year. Many articles have been published and addresses given urging its general adoption. During this present month several addresses upon this subject have been delivered in this country by Sir William B. Leishman, K.C.M.G., F.R.S., Professor of Pathology, Royal Army Medical College, London.

He was one of a committee of experts whose function was to get information in regard to all that was known of the subject, and to conduct further research with a view to the improvement of the vaccine. This committee has now presented its final report. It recommends the universal adoption of typhoid vaccination in the Brtiish army.

Typhus Fever.—This disease has shown itself this winter at United States ports more than of late years. It has occurred chiefly amongst immigrants from southern Europe. It has been present in a light form in New York and other large cities, under the name of Brill's disease.

Tuberculosis.—I referred in my last annual report to the claims of Dr. Friedman, of Berlin, that he had discovered a turtle serum vaccine for the prevention and cure of this disease. The Canadian Association for the Prevention of Tuberculosis appointed a committee to study and report upon the cases treated in Montreal, Ottawa, Toronto and London. That committee has reported that the results have been disappointing, the claims made for the remedy have not been proved, and that nothing has been found to justify any confidence in the remedy.

Circulars.—Circular letters were issued from time to time to the different officers, calling their attention to the various matters during the year connected with the appearances of epidemic diseases abroad.

New Organized Quarantine Station.—In October last I advanced the unorganized maritime quarantine station of Summerside, P.E.I., to the position of a full regular station, similar to Charlottetown, P.E.I., for the inspection, etc., of incoming vessels. Dr. A. A. McLellan was appointed as quarantine officer in charge. Prince Edward Island has the right of Federal quarantine protection against disease from her sister provinces of the Dominion, as well as from abroad.

Additional Inspectors on Mail Steamers.—To meet the change from one mail steamer a week to three each week coming up the St. Lawrence, last spring Drs. Bouillon and Lord were appointed in addition to the former officer, Dr. Lepage, to meet incoming mail steamers at Rimouski, Que.

Thus one of the medical officers comes up the St. Lawrence on each of the tri-weekly mail boats, making a detailed inspection between Rimouski and the Grosse Isle station.

Changes in Staff.—Last summer the death occurred of Dr. Watt, medical superintendent of the station at William Head, B.C., and Dr. Hunter, assistant medical officer and bacteriologist, resigned. Dr. Rundle Nelson has been appointed medical superintendent. A bacteriologist to replace Dr. Hunter has not as yet been appointed. Dr. Watt was an experienced and valuable officer. His death caused a loss to the service.

Public Works Health Act.—The inspector for Eastern Canada, Mr. C. A. L. Fisher, reports that amongst the men employed on the various works of railway, tunnel and canal construction, coming under his inspection, he found an almost complete absence of infectious disease throughout the year. He found the medical

service given to be complete, the sanitary condition of the camps good, the hospital accommodation excellent, and the sleeping quarters and boarding of the men to be fully equal to the very good conditions reported previously.

During the year there was an average of 13,220 men employed, with thirty-seven qualified medical officers in charge.

Dr. Clendenan, the inspector for Western Canada railway construction and irrigation work, reports that the epidemic diseases were much less than in previous years. The average number of men employed was 24,465.

Panama Canal.—The completion of the Panama canal will be a triumph of medical even more markedly than engineering skill. From a district that only nine years ago was considered almost uninhabitable, yellow fever has been entirely banished. There has not been a single case since May, 1906.

The triumph is not simply the making possible the construction of the Panama canal, but the demonstration that tropical regions which have been considered hotbeds of infection can be made habitable through the resources of ever-advancing sanitary science.

The whole respectfully submitted.

MARTIN BURRELL,
Minister of Agriculture.

PUBLIC HEALTH

APPENDIX No. 1.

REPORT OF THE DIRECTOR-GENERAL OF PUBLIC HEALTH.

(F. Montizambert, I.S.O., M.D.Edin., F.R.C.S.E., D.C.L.)

March 31, 1914.

Sir,—I have the honour to submit this my report as Director-General of Public Health for the year ending this day.

Asiatic cholera.—Since my last annual report this disease has been reported in the following countries: Austria-Hungary, Bulgaria, Ceylon, China, Dutch East Indies (Borneo, Celebes, Java and Sumatra), India, Indo-China, Japan, Philippine Islands, Roumania, Russia, Servia, Siam, Straits Settlements, Turkey-in-Asia, Turkey-in-Europe, and Zanzibar.

The spread of the disease in southern Europe has apparently been due largely to the demobilization of armies, the soldiers of which brought the disease back from the front.

The news that cholera had spread beyond the borders of the Balkans and had appeared in Hungary confirmed the long-standing fears of sanitarians. When the disease first appeared in Sofia, bacteriologists were hurried from Weichselbaum's laboratory, and 120 cases were fully examined bacteriologically. To the heroic and admirable efforts of Kraus and his associates may be attributed much of the credit for the control of the disease among the Balkan troops. Laboratories were established, pure water supplies provided, suspicious cases examined bacteriologically, and vaccination widely practised. The measures in force sufficed to prevent the wide spread of the disease, and stringent regulations were enforced to stamp out the threatened Hungarian epidemic. Germany and other European nations took precautions looking toward the prevention of invasion of their territory by the disease. The recent existence of the disease in Tunis, Constantinople, India and the Far East and China and other parts of the tropics and sub-tropics, to say nothing of its threatened and even actual entrance into Europe and the United States, rendered the fear of cholera epidemic no idle one. The interest and intelligent activity of the various Governments concerned resulted in keeping the temperate world from the clutches of the disease.

The Tropical Diseases Bulletin for July 15 reviews an article by Salimbeni and Orticoni on the treatment of healthy carriers of the cholera vibrio by enemas of specific serum. While the experiments quoted are not sufficiently extensive to show definite results, they may be suggestive to those who are experimenting on methods of treating typhoid carriers. The review follows:

> "During an epidemic at Marseilles in 1911, thirty-four persons in one asylum were found to be carrying the vibrios without showing any definite symptoms of cholera, although some had slight choleraic diarrhœa. All these were treated as follows: Each received an evacuating enema, and from the

fæces so obtained cultures were made. Immediately after this an enema of 50 cubic centimeters of cholera serum in 200 cubic centimeters of salt solution was slowly injected, attempt being made to let the injection penetrate as far into the intestine as possible. In nine out of the thirty-four the vibrios had disappeared at the time of the first injection; in twenty-two of the remainder they disappeared within two days, and in the three others in three to six days after the injection. None developed cholera. The numbers are small, but in another hospital several carriers continued to excrete the organisms for fifteen days, and at least two developed cholera and died; and the authors consider that the treatment is worth a further trial. In none of their cases could they detect the presence of cholera antibodies in the serum of the patients treated."

From September 5 to 8, 1913, seven cases of cholera were notified on the steamship Canada Maru, which arrived at Kobe, August 31. Two cases of cholera had been removed from the vessel at Nagasaki previous to her arrival at Kobe. On August 9, two cholera carriers were found among employees of the vessel who had been removed to detention quarters at Wada Point. This vessel arrived at the William Head quarantine station on October 3. She had been held eleven days at Kobe, fumigated, her passengers and crew bathed, their effects disinfected, and a new crew signed on. She was all well on arrival at William Head.

Bubonic plague.—This disease has been reported during the year in the following countries: Australia, Azores, Brazil, British East Africa, Ceylon, Chile, China, Cuba, Dutch East Indies, Ecuador, Egypt, India, Indo-China, Japan, Mauritius, Morocco, New Caledonia, Peru, Philippine Islands, Russia, Siam, Tripoli, Turkey-in-Asia, United States of America and Zanzibar.

Writing on the relation between traffic and the spread of plague, W. C. Rucker, assistant surgeon general, United States Public Health Service, states as follows:

"With the dawn of reason came traffic, and man as the only animal that sells and barters has been obliged to erect special barriers to prevent his vegetable and animal foes from attacking him through the avenue of commercial intercourse. Disease, which, after all, is but an outward and visible presentment of this never-ceasing battle, has always been recognized as the constant companion of commerce, and of no disease in particular is this more true than of plague. Who can doubt that at some remote age plague was confined to some small valley, from which it has been carried to all parts of the globe by the roads of trade 'which lead you o'er the world?' What galley seeking Cornish tin brought the first plague rat to England, just as the Ark of the Covenant carried the disease to the Philistines?

"The relation of traffic to the spread of bubonic plague is a simple equation, the one being to the other directly as the opportunity which traffic affords for the spread of rats from plague foci. It may therefore be taken as axiomatic that if we would prevent traffic from spreading plague we must concentrate our efforts on the prevention of the migration of rodents in traffic. If we successfully control the peregrinations of the murinæ we will control the spread of plague, because for all practical purposes man may be disregarded as a great factor in the grand tactics of plague. It is true that human pneumonic plague has been held responsible for certain outbreaks, and it is also a fact that verminous persons suffering from the septicemic form of the disease have acted as infection nidi, but these are local matters only and bear no vital relation to the world-spread of plague. Plague usually passes from rats to man, not from man to rats.

"It were better that the sanitary authorities had constant and accurate information as to the existence of rodent plague in the various ports, but unfortunately such knowledge is not always obtainable, or is perhaps obtained too late to prevent an exodus of the disease from a previously unrecognized focus of rodent plague. The measure then is obvious—let there be a world-wide embargo on rats. Let no rat take passage on any ship whatsoever, and if at the port of destination any rat is found on board, the penalty which he shall suffer is death. Every ship-borne rat must be regarded as a potential enemy not only to the life but also to the prosperity of man. Emphasis may be laid on the ship-borne rat because the overland spread of plague is not of material influence on the end result. Plague does not follow the caravan routes by reason of the transportation of rats; in fact, it is more than probable that verminous persons act as disseminating agents in such a situation; the carriage of infected rodents by freight trains undoubtedly does occasionally occur, but these are matters of minor consideration in the universal spread of plague in which the chief agent is the ship-borne rat.

"We have laid too much stress in the past on the human passenger, and we have paid too little attention to the rodent passenger. It is futile to examine and detain persons who have been exposed to plague infection and to neglect rodents which actually have the disease. It is equally absurd to quarantine against passengers from infected ports and to permit the landing of rats from ports which are considered safe merely because plague has not been reported from them. There is only one policy which we can logically pursue; that is to regard all ship-borne rats as elements of danger and to prevent their entering or leaving ships, and to confine our operations against passengers to the prevention of embarkation by persons actually suffering from the disease or in a verminous condition. It is time that there was a revision of the regulations of the International Sanitary Convention of Paris to meet the present-day interpretation of the method of the dissemination of bubonic plague. It is the plague rat which we must prevent from taking passage, and we should not confine our attention to the human passenger.

"The first element in preventing rats from entering ships is a rat-proof water front. This is not only a matter of importance in relation to the spread of plague by traffic; it is also an insurance against the fire and destruction losses which rodents cause. Rat-free vessels need not be obliged to breast-off from rat-proof, rat-free wharves. This facilitates the handling of cargo, because vessels may then discharge at the dock on one side and to lighters on the other.

"It is equally necessary that vessels be prevented by other means from receiving rats while tied up to the wharf and from discharging them under similar conditions. For this purpose the use of proper rat guards on mooring lines is to be recommended, care being taken that the guards are always perpendicular to the line, and that they are of sufficient diameter to prevent rats from leaping over them. It is entirely practical to construct a wharf and vessel in such a way that rats will be captured almost as soon as they get on them. For this purpose, when the dock is built, or the ship is laid down, suitable runways, which will entice the rats, should be installed. By means of swing doors, which operate from a platform, it is very easy to capture all the rats on board of a ship, or on a dock, in this way. The rats are imprisoned in the runways and can at any convenient time be driven by smoke or other means into a common chamber, the doors of which can be shut, and the rodents asphyxiated.

"It is not, however, practicable at the present time to secure an immediate world-wide adoption of the measures above referred to. This is a matter for the coming years, one demanding and deserving our careful and continuous labours. In the meantime, the periodic fumigation of ships for the purpose of killing the rats thereon is a most desirable measure."

We must inculcate the lesson that the rat is the most expensive animal which man maintains, and that the limitation of this species, its isolation from the dwelling place of man, and the control of its migrations are as important from an economic as from a humanitarian standpoint.

California.—A fatal case of bubonic plague occurred in Contra Costa county, Cal., and one in San Benito county. A death from bubonic plague occurred at Martinez, Cal., according to reports received by the state board of health from Dr. J. D. Long of the United States Marine Hospital Service in San Francisco. At the same time a message was received by the board from its secretary, Dr. W. F. Snow, now in Washington, D.C., stating that the Federal Government had decided to appropriate $40,000 additional to fight the disease.

The body of the Martinez victim, whose name had been withheld, was examined by Dr. D. H. Curry, of the federal laboratory service in San Francisco. Dr. Long personally passed upon the examination before pronouncing the case one of plague.

A Japanese woman in San Benito county, it was said at the health office, died of bubonic plague, in June of this year. These two cases are the only ones reported in many months.

"Ever since bubonic plague first gained a foothold on this continent, it has continued prevalent among rats and ground squirrels. The labourer at Martinez and the Japanese strawberry picker in San Benito were working in neighbourhoods known to be infested with diseased squirrels. No doubt they became infected themselves from working in ground infected by squirrels.

Seattle, Wash., Oct. 9.—A bubonic plague-infected rat was killed on the water front here several days ago, the first in years, and the health department immediately spread poison in the neighbourhood and took other steps to exterminate rats. For many years Seattle has paid a bounty of ten cents on each dead rat brought to the health department, and has employed rat catchers besides. The danger of plague is always present, because rats jump overboard from Oriental boats and swim ashore, sametimes a mile.

Dr. James E. Crichton, health officer of Seattle, said that the bubonic plague rat situation in Seattle was serious, but that the health department hoped to prevent an outbreak of the disease.

"Not for six years," he said, "has there been a case of bubonic plague in a human being in Seattle. In those six years we have found twenty-four plague rats. A considerable number were taken during the plague outbreak six years ago, and recently seven were killed in a section of the water front which has been thoroughly isolated. Thousands of dollars are being expended in Seattle under the orders of the health department in tearing down condemned wooden buildings, constructing cement basements, and otherwise making the water front as rat-proof as possible. The infected district is two blocks long and one block deep, and fronts on the bay with a planked street behind. We are trying to make it impossible for rats to lodge or breed on the waterfront."

Between September 30 and October 28, nine plague-infected rats were found. Others were found on November 5, December 9 and 13, January 1, 12, 16 and 19, and March 1 and 7. A total since 30th September last of eighteen.

Upon the first reports of these conditions, Dr. Nelson, quarantine officer at William Head, B.C., was directed to proceed to Seattle to study and report upon the situation, and the Department of Marine was asked, in accordance with our agreement with them, to instruct all harbour masters in British Columbia to enforce the breasting-out, etc., of vessels from Seattle, as provided for in the special regulations governing such conditions.

A woman died in Seattle on December 27 of an acute illness. An autopsy was performed and the findings were passed upon by a board of four physicians, one of whom was an officer of the United States Public Health Service, and one the chief medical inspector of the local health department. Previous to the autopsy the body had been embalmed, so that it was impossible to make cultures and ascertain definitely the nature of the disease. This board reported that the anatomical diagnosis was:

> "An acute infection, presenting in the spleen and in the cavity of the brain, micro-organisms morphologically identical with bacillus pestis, associated with Gramstaining diplococci, not of a specific character.
>
> "On account of the thoroughness of the embalming process, it was impossible to obtain cultures of these organisms.
>
> "Conclusions: Probable diagnosis, septicemic plague. Absolute diagnosis impossible."

The report was made and signed by Dr. Charles B. Ford, Dr. F. S. Bourns, Surg. B. J. Lloyd, United States Public Health Service, and Dr. C. F. Davidson, chief medical inspector.

The *British Medical Journal* of January, 1814, gives the following conclusions furnished by Drs. Castellani and Philip upon the recent outbreak of plague in Ceylon:

> "1. For the first time in the history of Ceylon plague has broken out in the island, shattering the old general belief held by the public that this disease would never appear in the country.
>
> "2. The type of the disease has been septicemic in all cases observed by us except in two recent ones in which axillary buboes were present. They all died within twenty-four to forty-eight hours from the onset. No cases of the pneumonic type have so far been observed.
>
> "3. The disease has probably been imported from some Southern Indian port, but we have been unable to trace it with certainty, and it is noteworthy that no steamers or boats with suspected cases have arrived in Colombo for more than a year. Another hypothesis is that there may be an unrecognized focus of plague in Ceylon.
>
> "4. An interesting feature of the outbreak has been the absence—to all appearances at least—of a discovered epizootic among the rats preceding the human epidemic. This suggests that infection took place first among men, and that rats have become infected later.
>
> "5. The infected rats so far examined have not shown any buboes, though the heart blood was teeming with plague bacilli. The plague among rats therefore appears to have been of the same type as that among men. It is probable that as soon as the Ceylon strain loses some of its virulence the bubonic type will appear both in rats and man. In man, as stated, we have already found two cases of the latter type .

London.—Rats are being regularly trapped and poisoned in the vicinity of the principal docks in London. Rats caught are also being examined bacteriologically.

During the year 1911, 1,250 rats were examined and one was found infected with plague. During the year 1912, 1,310 rats were examined and thirteen found plague-infected. It is reported that only two infected rats have been found this year, the last having been trapped on or about November 12, 1913. During the past six years infected rats have been found each year among those trapped along the London docks.

Cuba.—Public Health Reports of the 20th instant says:

> "Between March 5 and March 9 two cases of human plague were reported in Habana, Cuba. The time was when such an announcement would have caused consternation to shipping interests and would have been a source of much worry to United States seaports.
>
> "There is very little, if any, reason for fear under the circumstances. The manner in which plague spreads is known. It is known that ordinarily plague spreads only through the medium of rats, and that usually wherever a human case occurs there has previously been plague in rodents. This knowledge has caused epidemiologists to pay really more attention to the existence of plague in rats than to its presence in man. It has caused them wherever cases in man occur to trap rats diligently in the localities of the human cases and usually within a considerable radius of such localities. These rats are trapped mainly for the purpose of laboratory examination, so that the existence and extent of the disease in rodents may be ascertained. The control of the disease is then largely a question of its eradication among rodents or of the rat-proofing of human habitations to such an extent that the sick rats and their infectious fleas can not gain access to man.
>
> "The disease can be effectively controlled where intelligent sanitary measures are employed. But fully as important as intelligent sanitary measures, and perhaps even more important, both in the prevention of the spread of the disease and in preventing undue interference with shipping and unwarranted fears in commercially related ports and countries, is sanitary honesty.
>
> "By this is meant giving frankly to those who may be interested or affected by the existence of a disease in a port prompt and full information regarding existing conditions. So far as plague is concerned, and the same is true of most other diseases, there is little to be feared when conditions are known. It is only in the absence of definite and dependable information, when people do not know existing conditions and consequently allow their imaginations full play, that the occurrence of a few cases of such a disease as plague gives anything but nominal inconvenience to social and commercial intercourse."

On March 25, three new cases of plague were reported at Havana. The persons attacked were Spaniards employed as clerks by a sugar firm. One death was reported on the 26th instant.

Japan.—The last report received from Hong Kong, under date 14th March, gives for the week ending that day a total of thirty-eight cases in Hong Kong, with twenty-nine deaths. Cases are also reported from Kobe and Yokohama.

Philippine Islands.—Eighteen cases of human plague, with fourteen deaths, are reported since November 10 on these islands. No plague rats have been found since September.

Smallpox.—This disease has again had an almost world-wide appearance during the year. Cases of it were reported by incoming vessels at your Quarantine stations.

Grosse Isle, Que. (five vessels), William Head, B.C. (one vessel), Halifax (three vessels), Louisburg and Sydney, N.S. (one vessel). In all cases the disease was stamped out at the quarantine station.

Epidemic outbreaks of this disease in the states of Washington, North Dakota, Minnesota, Michigan, and New York led to your appointment of temporary medical quarantine officers to carry out inspections on the international frontier as follows: In British Columbia, two medical officers with five guards; Manitoba, eight medical officers, with one guard; Ontario, seven medical officers, with ten guards. The international quarantine on the southern frontier of British Columbia, of Manitoba and at Niagara Falls has since been raised. It is still in force on the Rainy river, at Fort Frances, Rainy River, and Emo, and at Sault Ste. Marie.

In compliance with the representations of the shipping interests, and to bring our regulations into conformity with what is the universally accepted period of incubation of smallpox, accepted by all other countries, they were modified by Order in Council on the 13th December last so as to fix fourteen days as the recognized period of incubation for smallpox.

In an article published in December last in *Public Health*, the journal of the Society of Medical Officers of Health, Dr. W. McWanklyn, Assistant Medical Officer of Health, London County Council, on "Vaccination: Its increasing neglect in recent legislation," he gives the following chronological table of English vaccination legislation:

"1840. 3 and 4 Vict., c. 29. Vaccination first dealt with by legislation. The Act provided means at the public cost, but left the operation optional. Repealed by the Act of 1867.

"1841. 4 and 5 Vict., c. 32 amended the Act of 1840. Repealed by the Act of 1867.

"1853. 16 and 17 Vict., c. 100. Vaccination first made compulsory. The duty was assigned to the Poor Law Guardians. A penalty was imposed on defaulting parents. Repealed by the Act of 1867.

"1858. 21 and 22 Vict., c. 97. This Act transferred the powers of the General Board of Health, which expired in this year, to the Privy Council, and the Council was empowered to issue regulations regarding vaccination. (This power was repealed by the Act of 1867.) It was also authorized to appoint a medical officer. This Act had effect for one year only.

"1859. 22 and 23 Vict., c. 3. Made the Act of 1858 perpetual, with the exception of section 8, in reference to the institution of legal proceedings.

"1861. 24 and 25 Vict., c. 59. To facilitate proceedings before Justices. Repealed by the Act of 1867.

"1866. A Bill was introduced to consolidate and amend the statutes relating to vaccination in England. It was withdrawn.

"1867. 30 and 31 Vict., c. 84. This Act consolidated the previous Acts and enlarged their scope. It also required guardians to form vaccination districts and contract with medical practitioners to perform vaccination. This Act forms the basis of the system in force at the present time. It is the principal Act.

"1871. The Act of this year was the outcome of the findings of a Select Committee on the working of the Act of 1867. Among other things it empowered the Local Government Board to make regulations and required guardians to appoint vaccination officers; they were permissive under the Act of 1867.

"1874. Order of Local Government Board regulating the appointment of vaccination officers and of proceedings for enforcing the provisions of the Acts.

"1889. Royal Commission appointed to examine into the working of the Vaccination Acts, brought about mainly by the opponents of compulsory vaccination. Sat for seven years.

"1898. An Act based on the findings of the Royal Commission of 1889. Enabled a parent or guardian on satisfying a magistrate of 'conscientious objection' to vaccination to suffer no penalty for not having a child vaccinated. Amended by Act of 1907.

"1907. An Act enabling conscientious objectors to vaccination to obtain exemption by sworn declaration in lieu of having to satisfy a magistrate of the sincerity of their convictions."

The following is from the journal of the American Medical Association, under date of February 28, 1914:

"It is an undeniable fact that many persons have been led to expect disagreeable symptoms from vaccination because of the sequels, which at times in the past have made this procedure annoying to the subject. To-day it ought to be frankly admitted that for the most part these objectionable features are undoubtedly the result rather of the vaccination than of the vaccinia. Isadore Dyer, of the Tulane University College of Medicine in New Orleans, has strongly urged the modification of certain common practices in connection with vaccination in the belief that they not only represent an unnecessary hardship and discomfort, but also contravene the best hygienic postulates in developing immunity to smallpox by producing vaccinia in the subject. Many operators leave the 'after-treatment' of vaccination to the person concerned, indifferent as to the vesicles, the pustulation and the pit or pock-mark deemed the evidence of a successful vaccination. Dyer points out that when the vesicle forms at the site of inoculation the person inoculated with the virus has vaccinia, just as much as the person with a chancre has syphilis. He insists that the vaccination should stop at the vesicle, and that the pustule—a sign of local infection with pus organisms—should be prevented. In smallpox itself every effort is made to avert the appearance of pustulation and the consequent pitting. Why not in vaccination? If we admit that the vaccination process should stop at the vesicle and that pustulation is not only unnecessary but even undesirable, then the eruption should be checked before the objectionable stage by purposefully breaking the vesicle and treating the site antiseptically. Dyer remarks that the evils of vaccination are prevented by such a procedure; there can be no impetigos, and multiforme erythema and its congeners cannot result from pus absorption. Dyer ventures the contention that it would be better to make sure of the most complete protection against smallpox by making sure of the highest obtainable immunity against vaccinia. Would it not be better, he asks, to vaccinate the subject repeatedly until the vaccine no longer takes? In other words, if a vesicle forms, vaccinate again, at once rather than at the end of seven years, and continue vaccinating as long as a vesicle forms, until the person is completely immunized."

International Frontier Quarantine.—As already briefly alluded to, you have found it necessary to institute this for the protection of this country against smallpox at several places.

In October last this disease developed in epidemic form around Oroville and other places in the state of Washington, near our frontier south of British Columbia.

Accordingly, on October 31, you appointed medical inspecting officers at Grand Forks and at Keremeos and Hedley, with guards to watch and report from trails, etc., at Brideville, Chapaka, Keremeos, Myrcaster, and Osoyoos. After the cessation of the outbreak this quarantine was raised finally at the end of February.

South of the Rainy River district in Ontario, an outbreak of smallpox in Minnesota led to your appointing a medical inspecting officer at Emo, on October 17; and as the disease spread on the south of the frontier line, a similar inspector at Rainy River on December 27, and a similar one at Fort Frances on January 23. These three medical officers are still on duty.

At Niagara Falls two medical officers were appointed by you on January 24, and a third on January 30, on account of a widespread outbreak of smallpox in Niagara Falls, N.Y. On account of the many ways of crossing, ten guards were employed under the three medical officers. Owing to the very efficient measures taken by the State Board of Health of New York, this epidemic was so successfully stamped out that you were enabled to raise this international quarantine on the 23rd instant.

In North Dakota, U.S., a serious and extended outbreak of smallpox was reported in December last, notably in the counties of Bottineau, Pierce, Ramsay, Rolette and Stutsman, and in the town of St. John. To meet this threatening danger you appointed medical inspecting officers to put in force international quarantine upon the southern frontier of Manitoba, at Boisevain, Cartwright, Crystal City, Deloraine, Gretna, Killarney, Morden and Waskada, with, in addition, a guard at Cartwright. These appointments were made December 28, 29, and 30. All of these inspections, except one, were raised on February 28, and the final one on the 11th instant.

At Sault Ste. Marie you appointed a medical officer on January 27, to carry out international quarantine inspection, in consequence of a serious outbreak of smallpox in the neighbouring state of Michigan. This inspection is still being enforced.

Leprosy.—There are at present in your lazaretto at Tracadie, N.B., nineteen patients, ten males and nine females. Of these, fifteen are of French-Canadian origin, two of English, one of Icelandic, and one of Russian. There have been four deaths, and two admissions during the year.

The two former inmates discharged, apparently cured, in February and November, 1912, remain in good health. They are in poor circumstances, and have to work hard for their living. Similar cases have been reported by other observers. Two are on record in this lazaretto before any treatment was employed. Whether these last two, discharged in 1912, may be claimed as cures under our present treatment, or whether they are instances of limitation of, or the production of auto-immunity against the disease, it will take more experience to determine.

At your leper lazaretto at Darcy Island, B.C., there is now a Chinese leper, admitted on the 19th instant. He has been fifteen months in the country. The disease first began to show itself three months after he landed. He is now awaiting deportation under the Immigration regulations.

Dr. H. Bayon, Research Bacteriologist (Leprosy), Government of the Union of South Africa, in an address delivered at the Royal Society of Medicine on November 29 last, spoke in part as follows:

> "On considering leprosy from a nosological point of view, we are struck by its long incubation, its slow and chronic course, and the terrible mutilations and disfigurement it is capable of producing without appreciably short-

ening the life of its victims. Its general infectivity, or, more correctly, contagiousness, appears to vary somewhat in different climates, because, though nowadays the disease, estimated by the number of cases, is practically confined to tropical and subtropical countries, still it is a universal disease occurring from north to south all over the inhabited world. In other words, it appears to have spread or persisted under some conditions and died out under others, for we know that it was extremely prevalent in Europe in the Middle Ages.

"It is not possible, from a scientific point of view, to deny that leprosy is contagious, even though we may not quite exactly know in which way the disease is transmitted from one individual to another. Knowledge of its contagiousness is founded on the following substantiated observations:

"1. That it is a disease due to a definite micro-organism.

"2. That in Northern Germany, where the disease had been reintroduced from Russia in modern times, the infection was found to have spread concentrically from the first imported cases.

"3. That the overwhelming majority of cases originate in countries where leprosy is relatively common.

"4. That in the rare cases in which the disease has been contracted in countries where leprosy is not indigenous, such as England, Holland, and Southern Germany, we are able in every case to prove the more or less intimate contact with lepers who in their turn came to these districts after a more or less prolonged stay in a leprosy-ridden country.

"5. That in countries where leprosy is relatively rare the disease is found to be bound to definite foci or families. This has been observed in the Alpes Maritimes, on the Riviera, and in the Valais (Switzerland).

"6. That the countries which have carried out universal segregation have been rewarded by a gradual and constant diminution of the disease.

"7. That where segregation has been abandoned or loosely carried out the scourge has attacked an ever-increasing number of individuals.

"The modern medical eye looks, therefore, upon leprosy as a disease which is definitely contagious, though under proper sanitary conditions to a very slight degree. In situations where hygienic precautions are defective and the contact between the diseased and the healthy is unnecessarily immediate—where, for instance, a leper is obliged to sleep in the same bed with other members of the family—and personal cleanliness is apt to be in abeyance, the danger of contagion is certainly present to a varying extent.

"We know that at the present moment about twenty-five to fifty lepers, or perhaps more, are living in England, and yet of these only one has acquired the disease in the United Kingdom. The simple precautions these unfortunates are able to take to keep themselves separated from their families have been sufficient to prevent contagion.

"In India, on the other hand, the last census appears to show an increase of lepers from 100,000 to 110,000 in ten years.

"In Basutoland the principal medical officer counted 300 lepers twenty-five years ago. An official report was made asking the Government to enforce segregation, as otherwise an increase to double that number was to be expected within twenty years. For financial and other reasons this advice was not acted upon. Last year a census showed 800 to 900 lepers in Basutoland, so that the principal medical officer does not appear to have gone far wrong in his prophetical estimate.

"Nearly every imaginable drug has been tried, and a great number are still under experiment in the hope of discovering a cure for leprosy; but we have yet to find a specific and sure method of treatment.

"The present position can, however, be summed up by saying that even the most useful therapeutic agent requires the help of an early diagnosis of the disease and proper hygienic conditions; but that at no moment has the therapeutic outlook been so hopeful as at the present moment.

"In its initial stages, leprosy affects the general well-being and appearance of an individual to such a slight extent that any therapeutic effort which succeeded in arresting the disease in its early stages in a fair proportion of cases would practically amount to a cure.

"Spontaneous remissions of the disease and spontaneous apparent 'cures' occur, however, in a small proportion of lepers, and may last for several years, in some instances as long as fifteen years or more, but afterwards the disease may again become virulent and rapidly carry its victim to the grave. Therefore any drug or method of treatment must stand the test of time, five years or more, and be applied to a sufficient number of patients.

"Without taking into consideration these important initial factors, it is absolutely irresponsible to speak of cure in a disease so chronic, so slow, and intractable as leprosy is known to be.

"A review of all therapeutic attempts, many of them very sketchy and salutatory, would fill a volume by itself. I may, however, be allowed to give the results of the experience at Robben Island, and in South Africa generally. For all advanced nodular stages Chaulmoogra oil, or, better, its refined constituent 'antileprol,' injected intramuscularly in doses of 3 to 5 c.cm. is still the best palliative I know. The injections should be repeated every three days, and the course should last five months or more if the patient can stand it, because at times the injections may become very painful. Chaulmoogra oil and antileprol can also be given internally in small capsules, and for this mode of treatment antileprol is decidedly preferable, as it does not cause the gastric disturbances produced by the unrefined oil. Doses varying between 15 minims and ten times that quantity can be taken daily.

"Having shown that leprosy is but slightly contagious if proper sanitary precautions are taken, and that any form of treatment which can be applied with any hope of success must be made use of in the very early stages of the disease, it may seem inconsequent to follow with the statement that only by a universal system of segregation can it be hoped to cope with the spread of the disease successfully and promptly.

"The Americans in the Philippines succeeded by an energetic segregation of all cases in reducing the new admissions by 90 per cent. In South Africa, where in some districts, owing to financial considerations, only about one-half of the leper population is segregated, the rate of admission has remained constant for the last ten years. The Leprosy Repression Act in the Cape Colony was extremely severe, but owing to its very severity it could not be carried out in its entirety.

"Opponents of segregation consider that it is cruel to separate the lepers from their family and friends. Two facts, however, are overlooked. One is that when an individual develops leprosy in a severe form his friends soon abandon him; and that consideration of the feelings of one may mean the misery of many, because one single leper may give rise to several. In a case observed in Northern Germany one girl directly and indirectly infected twenty-eight people.

"It is only in properly constructed and conducted asylums that lepers can be taken care of satisfactorily and prevented from infecting their surroundings. If in the course of time early cases, and a certain proportion of the more advanced, can be favourably influenced by treatment, or even if the present results stand the test of time, there will be ample reason for trying to get rid of the scourge by universal registration and segregation—measures which ensure also proper treatment and care.

"Leprosy is so far-reaching in its social results, for the individual affected is cut off to such an extent from his fellow beings as to render his earning a livelihood very precarious, that whether we look at the matter from the standpoint of humanity or from that of sound policy, it is seen to be the duty of every Government to prevent its further spread."

I am indebted to Victor G. Heiser, Surgeon United States Public Health Service, chief quarantine officer and director of health for the Philippine Islands, for valuable particulars as to leprosy in the San Lazaro hospital, Manila, contained in one of the reports of his bureau for 1913. This report says:

"On June 11, there were released from San Lazaro hospital two persons who were formerly afflicted with leprosy, and have now been pronounced free from the disease.

"C. A., male, Filipino, age 27, admitted May 29, 1909. On admission the case presented thickened reddish spots on the nose and thickening and discoloration of the lobe of the right ear. Smears made from the lesions were positive for leprosy bacilli. Beginning August, 1909, he received vaccine treatment at intervals for one year, but apparently there was no change in his condition during this period. From September, 1910, to November, 1910, he took crude Chaulmoogra oil by mouth, beginning with daily fifteen-drop doses, and by November reaching sixty drops per day. The oil was given three times daily in divided doses. From November he received hypodermic injections of the following mixture:

"Chaulmoogra oil . . . . . cc... 60
Camphorated oil . . . . . cc... 60
Resorcin. . . . . grams... 4
Mix and dissolve with the aid of heat on a water bath, and then filter.

"The foregoing mixture was given as follows:
"During November . . . . . 2 cc. every 3 days.
During December . . . . . 5 cc. every 8 days.
During January . . . . . 10 cc. every 8 days.

"As this large dose was being borne badly it was reduced to 5 cc., which amount was injected every eight days from February to May. There was apparently no change in his condition at the end of the year following the vaccine treatment. During the treatment with crude Chaulmoogra oil by mouth there was some improvement in his condition. This improvement continued during the time that hypodermic injections were given, and on May 6, 1911, all the lesions above described had disappeared and it was impossible to demonstrate the leprosy bacillus. All treatment was then discontinued for a period of one year, during which time he remained negative microscopically. From August, 1912, to June, 1913, 2 cc. were given every ten or thirteen days until the time of discharge.

"The second case was that of G. A., a Filipino women, age 22, admitted to the San Lazaro leper hospital on January 7, 1910. She had a generally

suffused countenance and small red macules on the cheeks, forehead, and chin. Scrapings from these lesions were positive for leprosy bacilli. Vaccine treatment was begun January 15, and continued for a period of five months. At the end of the first month there was apparently no improvement in her condition, and crude Chaulmoogra oil was given by mouth in ascending doses. The initial dose was thirty drops per day, and had reached three hundred drops at the end of four months. At the close of this period there was some apparent improvement, but the oil was no longer borne well, and the Chaulmoogra oil mixture mentioned in the previous case was administered. For the first month 1 cc. was injected into the buttocks every eight days. The next month 10 cc. was injected every four days. Then one dose of 15 cc. was given. After that 5 cc. was injected every six days. By May 6, 1911, there was great improvement in her general appearance, and she was microscopically negative for leprosy. During September, 1911, all treatment was discontinued for one year. Beginning June, 1912, 2 cc. was injected every eight days. Microscopical examinations were made at frequent intervals and always with negative results. On June 11, the date of her discharge, all maculese had disappeared, but there was still some suffusion of the countenance.

"It is not known whether the vaccine treatment had any influence in these cures. It may be said, however, that there are a number of other cases at San Lazaro leper hospital and at the Culion leper colony that have been negative for nearly two years which presented more marked lesions than those already discharged, and yet they received only Chaulmoogra oil, no vaccine being employed.

"Apparent cures have been reported from time to time in the past from San Lazaro hospital, but unfortunately all such cases relapsed or died from some intercurrent disease soon after they were negative for a period of one year. The cases now reported have been negative for a period of two years, and there seems to be ground for hope that the results may be more permanent.

"As soon as the favourable results became generally known among the lepers there was a great demand to take similar treatment, and many hundreds are now taking Chaulmoogra oil in some form or other.

"Owing to the long period over which the oil must be taken and the nauseating effect when given by mouth, experience has shown that few have the hardihood to take the treatment faithfully over a prolonged period.

"Up to the present time the results have not been such as to warrant the belief that a specific for leprosy has been found, but it is thought that if adequate funds were available for the opening of a laboratory for the study of this leprosy treatment and an attached hospital provided which had facilities for making accurate observations, at least a way has been indicated which might eventually lead to success. In order that too great hopes may not be aroused by the present cures, it should be remembered that in the experience of the Bureau one leper has apparently recovered spontaneously—that is, without any treatment being administered—and that for a period of over a year now there have been twenty patients placed under the treatment mentioned above, but only a few of them have shown any signs of improvement."

Under date Manila, October 31, 1913, Surgeon Heiser wrote me as follows:

"It may be of interest to mention that yesterday there was released on probation a girl of fourteen years of age who was admitted to the San Lazaro hospital on January 5, 1911, with the microscopically confirmed diagnosis of leprosy. She took the treatment as described in the Quarterly Report, and has now been negative for leprosy, both clinically and microscopically, for a period of two years. No vaccine or other treatment was given in this case.

"I expect shortly to publish a preliminary report upon fourteen lepers who have taken this treatment since February 21, 1912, under test conditions. Twenty persons afflicted with various types of leprosy were selected. Of these, six refused to take the treatment after a few months' trial, which left fourteen. Of these, one is now negative for leprosy, three are much improved, three are improved, four are perceptibly improved, one died, and two are unimproved.

"In the opinion of the undersigned, nothing has developed up to the present time to warrant the belief that a specific for leprosy has been found. It has been our experience that lepers often improve without any treatment, and we have at least one instance in which a leper recovered completely without treatment."

The February number of the *Journal of State Medicine* speaks of conditions now existing in France as follows:

"Some alarm has been caused by the increase of leprosy in France, and particularly in Paris, and Dr. Marchoux, of the Pasteur Institute, is to report upon measures best fitted to prevent any further spread of the disease."

When I was appointed, twenty years ago, to the supervision of the Tracadie Leper Lazaretto, I introduced the treatment with Chaulmoogra oil and tonics. When *Nastin* was in vogue we gave it a trial, but without very encouraging results, although one patient reported improved under it is still maintaining the improvement, though no injections have been given since November last. We are at present using the compound of Chaulmoogra oil, Camphorated oil, and Resorcin by injections in the gluteal muscles once a week. Steps have been taken for a trial of Antileprol, Dr. Bayer's refined constituent of Chaulmoogra oil, as mentioned in my quotation above from his address.

Beri-beri.—During the year further observations have been made, and articles published as to the etiology of this disease. In the British Medical Journal, 1st November last, Arthur Stanley, M.D., Loud., M.O.H. Shanghai, writes as follows.

"In view of the increased attention to beri-beri and the resuscitation of the 'rice theory' of its origin, founded on what appear to be wrongly interpreted experiments on the feeding of fowls, and especially in view of new legislation recommended on the supposed cause of the disease by consuming decorticated rice, it may be well to record an obvious fact which appears to have been lost sight of by recent workers.

"After a period of close observation extending over fifteen years in Shanghai and other parts of China, beri-beri is found to be common in institutions, such as jails, charitable institutions, and schools, where large numbers of persons live together, but comparatively uncommon among the general population; practically no difference obtaining as regards the food supply, at any rate as regards the kind of rice consumed, which is invariably decorticated by the same process in China. If beri-beri were due to the loss of something in the outer covering of the rice grain, why should the disease show such a marked proclivity towards persons closely aggregated in large numbers? Such are the conditions which make for the spread of infection.

"Isolation of the sick and ordinary disinfection of clothing, etc., have little or no effect on an outbreak of beri-beri, but after disinfestation of body vermin and sulphur fumigation of quarters to kill bugs, etc., there are strong reasons for thinking that prevention of the spread of beri-beri is immediate and effective. This points towards infection by external animal parasites.

"It is interesting to note that practically all new workers on this elusive subject are first attracted by the 'rice theory,' especially in view of other forms of peripheral neuritis, such as ergotism, lathyrism, and perhaps pellagra, being

attributed to the results of parasitic growths on seeds. This, in fact, appears to represent the first stage of research, which is almost invariably given up when the idea is found untenable as a result of fuller knowledge. But to accept the "rice theory" as final and to advise Governments to legislate rice with a view to prevention of beri-beri is to discourage further research until, of course, such legislation is found to be futile. Meanwhile, trade may be damaged and the habits of the people unnecessarily interfered with."

The matter is well summed up in a paper read at the tenth annual meeting of the American Society of Tropical Medicine, held at Washington in May last, by Major Weston P. Chamberlain, of the Medical Corps United States Army:

"It should be stated that all authorities do not accept the polished rice theory of beri-beri production. As a result of clinical and experimental evidence obtained in the Philippines I am personally fully convinced of the correctness of the theory as regards the beri-beri commonly seen in the Orient. In some instances, particularly on ships and in Brazil, a disease called beri-beri is reported as occurring among persons who eat little or no rice. Three explanations of these facts may be offered: Firstly, the dietary may be an unbalanced one, lacking the neuritis-preventing substance, even though it is not a rice diet. Secondly, the neuritis-preventing principle may have been destroyed by excessive heat, as for instance by cooking with steam under pressure. Thirdly, the term beri-beri may include several varieties of neuritis caused by different factors. Neuritis due to poisons, such as lead, arsenic and alcohol, and to toxins produced by bacteria, such as the Klebs-Loeffler bacillus, are well known. That a diet of rice deprived of its pericarp will produce neuritis seems fully established. But it by no means follows that there may not be still other types of endemic tropical neuritis, the causes of which remain undetermined."

Enteric fever.—Anti-typhoid inoculation. In the annual report of the Provincial Board of Health of British Columbia, in April last, Dr. Fagan, the secretary, states as follows:

"During the past year notices were sent out broadcast throughout the province, drawing attention to the value of typhoid inoculation in the prevention of this malady. In many parts of the province, with the support of many of the medical profession, this matter was eagerly taken up, with the result that a large amount of typhoid vaccine was distributed free of charge; and the results have been most gratifying. I respectfully recommend that the province continue in the wholesale distribution of this biological product, as its saving in life and health is most important from an economic point of view in the progress of the country.

"Reports on the use of typhoid vaccine show:—

"(1) Sixty-one thousand six hundred and twenty-two British soldiers immunized in India during 1911. Typhoid incidence in the immunized, 1.7 per thousand; in those not immunized, 6.7 per thousand—a case reduction of 75 per cent. Death-rate in immunized, 0.17 per thousand; not immunized, 1.15 per thousand—a mortality reduction of 85 per cent.

"(2) Eighty-two thousand United States soldiers immunized up to July 1, 1912. The typhoid-rate dropped from 3.03 per thousand in 1909 to 0.3 per thousand in 1912—a reduction of 90 per cent.

"(3) Twenty-four thousand seven hundred and ninety-five Japanese soldiers immunized in 1909. Comparison of 12,915 immunized soldiers with 20,245 not immunized, living under the same conditions, shows one (1) case per thousand among immunized, 14.52 cases per thousand among those not immunized—a reduction in the typhoid rate among the immunized of 93 per cent.

"(4) Thirty thousand persons immunized in Memphis, Tenn., during a recent typhoid epidemic; 517 of these were children one to five years of age. The Department of Health Report says: 'We believe from our experience that it saved our city from a most serious epidemic of typhoid fever.'

"(5) Two thousand and forty-four persons immunized in Baltimore during 1911-12. Not a single case of typhoid occurred among these persons. In 309 hospital nurses and attendants immunized, there were no cases of typhoid. Among 82 nurses and attendants not immunized, there were seven cases.

"(6) One thousand three hundred and eighty-one nurses and hospital attendants in Massachusetts hospitals were immunized. Only two cases of typhoid fever developed. With immunization, typhoid incidence was nine times greater.

"That vaccination is harmless is shown by the fact that 62,000 anti-typhoid inoculations have been made in the United States Navy since January, 1912. Only a small fraction of 1 per cent of those immunized had reactions requiring excuse from duty; and of the 263,842 immunizations tabulated above, no harmful results followed."

The Weekly Bulletin of the Department of Health of the City of New York has the following under date of 26th April last:

"Anti-typhoid immunization has been practised by the department since January 1, 1913. When a case is reported, the home of the patient is visited to obtain historical data bearing on sources of infection. At the same time and with the assent of the practitioner in charge, immunization is offered to members of the household. Three doses are administered, seven to ten days apart, the first one containing 500 million killed bacteria in glycerin suspension, the others 1,000 million each. Reactions are observed and adequate histories are filed.

"Over twelve hundred injections have been given to about four hundred people, with no serious reaction. In the severest one on record there was nausea and vomiting, a marked chill, no rise in temperature, and considerable malaise. All of these symptoms subsided within forty-eight hours with no other ill effect. This reaction followed the first dose, the second and third causing only the mildest reaction.

"Among those immunized but one person developed typhoid fever. This case was a child already in the stage of incubation, who came down two days after initial dose. The course was exceptionally mild, an abortive form of the disease. It cannot be said in this case that the disease was possessed of little virulence, for two other children in the same family died from typhoid fever just before the culture was administered to the remaining members. There was no apparent reason for the favourable behaviour in the third case, except the benign influence of the injected culture.

"In a family of eleven there were two cases of typhoid. Immunization was offered to the remaining nine members. Eight accepted and did not con-

tract the fever. The one who declined immunization did develop typhoid very soon thereafter.

"In other instances within the experience of the department, persons exposed to the disease and refusing the preventive treatment have succumbed. On the other hand, none have developed it who have received immunization, with the single exception of the child mentioned, who was already infected and who ran so mild a course in the presence of such a virulent type of the *bacillus typhosus*.

"Foreign statistics corroborate these results. Thus there were 400 immunizations in the Maidstone asylum, England, during an epidemic. Among these but one per cent developed typhoid, whereas fourteen per cent among those not so treated contracted it.

"The typhoid incidence in New York city has been low, and the opportunities for immunization comparatively few. As the season advances the injections will necessarily increase in number with the increasing incidence of the disease, and it is expected that a reduction in the percentage of direct contact infections shown in previous years will take place.

"It has been thought inadvisable to administer the treatment to those having incipient or other tubercular lesions, as some writer intimates that exacerbations of the tuberculosis may follow such immunization. The department therefore will not inject the culture in the presence of manifest tubercular or other serious lesions, until this question has been settled by further observation."

Several addresses in favour of anti-typhoid inoculation have been given in this country during the present month by Sir William B. Leishman, K.C.M.G., F.R.S., professor of Pathology, Royal Army Medical College, London. Sir William was one of a committee of experts whose function was to get information in regard to all that was known of the subject and to conduct further research with a view to the improvement of the vaccine. This committee is now dissolved, having presented their final report. Their report recommended the universal adoption of typhoid vaccination in the army.

For the disinfection of typhoid stools the method devised by Dr. Kaiser, of the Hygienic Institute of Gratz University, remains the most simple and effective one. It consists in the addition of enough hot water to cover the stool in the receptacle and then adding about one-quarter of the entire bulk of quick lime (calcium oxide), covering the receptacle and allowing it to stand for two hours. The hydration of the lime generates enough heat to destroy the typhoid organism.

Linenthal and Jones, of the Massachusetts State Board of Health published the results of experiments made to test the efficiency of this method. They found that when hot water was used, as just stated, the temperature invariably rose to 75 degrees C. or over in ten minutes, and in twenty minutes it reached 85 degrees and often 90 degrees, and a temperature was maintained over 60 degrees for an hour and a half or longer. They next tested the effect of this method on the destruction of typhoid bacilli, and in all their experiments found that the typhoid bacilli were killed. Their conclusions are as follows:

"The addition of about a cupful of commercial unslaked lime and water to a typhoid stool will generate enough heat to kill the typhoid organism. While cold water may often suffice, it cannot be depended upon owing to the variable quality of the lime. Hot water from 50 degrees to 60 degrees C. will always give the desired results. The lime used should be in lumps, broken up in small pieces and distributed over the stool.

"We believe that this is a simple, efficacious method and should take the place of the various methods now recommended by local Boards of Health."

Typhus fever.—Between the 1st of January last and the 8th instant, eight vessels have brought to United States ports thirteen cases of typhus fever. These vessels were from Marseilles, Trieste, and Havre. Other cases subsequently occurred as the result of contact with the above cases. The nationalities affected were principally Turks, Armenians, Syrians, and Kurds.

The period of incubation of typhus fever is of sufficient duration to allow an immigrant to take passage after infection and reach a port in this country without showing evidence of the disease. Therefore steerage passengers from Western Asia and Eastern Europe in general, and from the above-mentioned localities in particular, should be examined carefully at the time of arrival at the quarantine stations, and subsequently examined by the officers of the service engaged in the examination of aliens to still further supplement the important work of endeavouring to determine what steerage passengers are most likely to convey the infection of typhus fever.

Tuberculosis.—Upon the results of the Friedmann treatment, Drs. Adami, Mackenzie, Caulfield, Harding, McCullough, Ross, Elliott, and Porter signed a report. Dr. Hodgetts, a member of the committee, being averse to making any report whatever, did not sign. The report was read at a general meeting of the Canadian Medical Association in London, Ontario, June 25, 1913:

> "In order to allay public excitement and to afford to the medical profession and people of Canada, an authoritative statement regarding the value of Dr. Friedmann's treatment, the Canadian Association for the Prevention of Tuberculosis nominated a committee of five members to study and report upon the cases inoculated by Dr. Friedmann at Montreal, Ottawa, Toronto, and London. The committee has added to itself those physicians who have under observation the cases treated in these cities. The committee thus constituted begs to report that it has carefully studied the case histories of the patients inoculated by Dr. Friedmann. These number altogether 161, namely, for Montreal 55, for Ottawa 10, for Toronto 81, for London 15.
>
> "As a result of our observations from March 11 to the present, the following conclusions seem justifiable:
>
> "1. The inoculations have neither constantly, nor frequently, been followed by any marked change in the clinical course of the disease.
>
> "2. The cure or progress towards cure claimed by Dr. Friedmann for his treatment has neither constantly, nor even frequently, taken place in the time during which these cases have been under observation.
>
> "3. Thus upon investigation the committee finds that the results have been disappointing, that the claims made for this remedy have not been proved, and that nothing has been found to justify any confidence in the remedy."

Panama canal.—The completion of the Panama canal will be a triumph of medical skill even more markedly than of engineering skill. There is no reason why the French should not have completed the canal other than that they were not able to keep men alive in the Canal Zone. Even as late as 1903 it was officially reported that "the Panama canal district is one of the hottest, wettest and most feverish regions in existence. Intermittent and malignant fevers are prevalent, and there is an epidemic of yellow fever at times. The death rate under normal conditions is large." How large the death rate was is expressed in figures given by Col. Gorgas, chief sanitary officer of the Canal Zone. He reports that the death rate among the French employees was something more than 240 per thousand.

From a district that only nine years ago was considered almost uninhabitable, yellow fever has been entirely banished. There has not been a single case since May, 1906.

As a matter of fact, however, the actual cost for all of this has been less than one per cent of the total appropriations made for all purposes. Col. Gorgas states that when the canal shall have been finished, it can be shown that sanitation will have cost about $365,000 per year. With a population of 100,000 this would mean only 1 cent a day per person. The population of the Canal Zone is estimated at 150,000. The triumph is not simply the making possible the construction of the Panama canal, but even more so the demonstration that tropical regions which have been considered as hotbeds of infection can be made habitable by the expenditure of a sum well within the means of any fertile territory.

Circulars.—Circular letters were issued from time to time to your different officers, calling their attention to the various matters during the year connected with the appearances of epidemic diseases abroad.

Bulletins, etc., received.—The weekly Public Health Reports of the United States Public Health Service have been regularly received and are of great value, as are also the monthly bulletin from provincial, state, and municipal boards of health in Canada, the United States and other countries. The bulletins of the International Office of Public Health, Paris, and of the Sleeping Sickness Bureau, London, have been regularly received throughout the year, and in both cases spare copies have been distributed to the provincial boards of health.

New Quarantine Station.—In October last you advanced the unorganized maritime quarantine station of Summerside, P.E.I., to the position of a full regular quarantine station for the inspection, etc., of incoming vessels, and appointed Dr. A. A. McLellan as quarantine officer in charge. Prince Edward Island has the right of federal quarantine protection against disease from her sister provinces of the Dominion, as well as from abroad.

Additional Inspectors on Mail Steamers.—To meet the change from one mail steamer a week to three each week coming up the St. Lawrence, you appointed Drs. Bouillon and Lord, in addition to your former officer, Dr. Lepage, to meet incoming mail steamers at Rimouski, Que. Thus, one of your officers comes up the St. Lawrence on each of the tri-weekly mail boats, making a detailed inspection between Rimouski and Gross Isle.

Changes in Staff.—Last summer the death occurred of Dr. Watt, medical superintendent of the William Head quarantine station, B.C., and Dr. Hunter, the assistant medical officer and bacteriologist at the same station resigned. You have appointed Dr. Rundle Nelson as medical superintendent, but as yet no assistant medical officer and bacteriologist has been appointed.

Dr. Watt was a hard-working and valued officer, with sixteen years' experience in office. His removal by death is a loss to the service.

Official Visits, Inspections, etc.—On 13th June last I left, by your instruction, to inspect on the Atlantic coast. I visited the station at Grosse Isle, Que.; the Leper lazaretto at Tracadie, N.B.; the quarantine stations at Chatham and St. John, N.B.; Digby, Halifax, Sydney, and Louisburg, N.S.; Charlottetown and Summerside, P.E.I.; Rimouski, Que.; and made a second visit to Grosse Isle, Que., in connection with the improvements being carried on there.

On August 14 I left for the Pacific coast. I inspected at Vancouver, Victoria, William Head and Prince Rupert, and the leper lazaretto at Darcy Island.

On my return trip I attended the annual meeting of the American Public Health Association at Colorado Springs, Colo.; and proceeded from thence to Regina, Sask., where I attended the annual meeting of the Canadian Public Health Association.

At that meeting I had the opportunity of conferring with the provincial health officers of Alberta and Saskatchewan, and subsequently, at Winnipeg, with the provincial health officer of Manitoba.

On October 5 I went, by your instruction, to St. John, N.B., in connection with an inspecting steamer, and the fumigating appliances and their scow.

Stations, etc., Grosse Isle, Que.—Vessels inspected at this station and its sub-station at Rimouski, 442. Persons inspected, 293,568. Admissions to hospital, 1,720. Diseases: Smallpox, scarlet fever, diphtheria, measles, röthelm, variola, enteric fever. Deaths in hospital, 16.

Five vessels reported smallpox. Nearly 7,000 persons were vaccinated.

During the year the following works have been practically completed: A new detention building for first-class passengers, extension of western wharf, 200 feet by 60 feet, bakery, carpenter's shop, plumber's shop, residences for bacteriologist, and for second medical assistant, cottage home for nurses, addition to hospital disinfection building. Works commenced: Breakwater at western bay, new story on dynamo and disinfecting building, water tank, and the burying of the water mains below the frost.

Rimouski, Que.—Coming up on mail steamers between this advance station and the main station at Grosse Isle, Dr. Lepage inspected 30 vessels and 45,487 persons; Dr. Bouillon, 28 vessels and 38,710 persons; and Dr. Lord, 28 vessels and 39,785 persons.

Halifax, N.S.—Vessels inspected, 385. Persons inspected, 203,810, being 46,311 more than last year. Infectious disease was reported by 36 vessels. The admissions to hospital were 204. The diseases: Smallpox, measles, scarlet fever, diphtheria, and chicken-pox. Deaths in hospital 2, one from diphtheria and one from measles.

Dr. J. J Hagerty, of the Grosse Isle staff, acted as medical assistant and bacteriologist during the absence of Dr. V. N. McKay at McGill University, Montreal.

St. John, N.B.—Vessels inspected, 173. Persons inspected, 37,949. The admissions to hospital were 35. The new buildings, bacteriological laboratory, assistant medical officer's house, and the houses of the boatmen and the assistant caretaker, have been completed, and are now occupied. A detention building for first-class passengers is now under construction. The station motor boat, *Eleanor,* has been thoroughly overhauled and improved.

Chatham, N.B.—Vessels inspected, 35. Persons inspected, 737. No quarantinable disease. Repairs have been made to the caretaker's house at the station, and a hot-water heating system introduced. A larger and safer inspecting launch has been provided

Digby, N.S.—Vessels inspected, 8. Persons inspected, 160. One case of measles occurred.

Sydney, N.S.—Vessels inspected, 126. Persons inspected, 3,426. One case of smallpox occurred.

Louisburg, N.S.—Vessels inspected, 34. Persons inspected, 909. One case of smallpox occurred.

Charlottetown, P.E.I.—Vessels inspected, 6. Persons inspected, 44. No quarantinable disease. The hospital has been provided this year with an ice-house.

Summerside, P.E.I.—This station was established by you on 31st October last, with Dr. A. A. McLellan in charge. No foreign vessels since inspected.

William Head, B.C.—Vessels inspected, 169. Persons inspected, 42,094. Admissions to hospital, 4; 2 cases of smallpox and 2 of measles.

The following changes in the staff have taken place in the period under notice: On June 18, Dr. J. D. Hunter, assistant medical officer, resigned, and I regret to have to report that on the 28th July following, Dr. A. T. Watt died in St. Joseph's hospital, Victoria, having completed over sixteen years of service as medical superintendent of William Head quarantine station and British Columbia quarantines.

During the late superintendent's illness in hospital, and up to the 22nd September, Dr. Bapty and Dr. Walker carried on the inspection work, and on the 22nd of September, Dr. H. Rundle Nelson was appointed medical superintendent.

A large number of improvements and additions have been carried out at the station since November last. A waiting and dressing room for ladies has been built next the ladies' baths, in the disinfecting building; and the extension of the powerhouse, for the handling of the mails and the accommodation of steerage passengers after bathing, will fill a long-needed want. The cold storage house will also be an improvement, the want of which has been long felt. With the exception of the superintendent's house, the assistant medical officer's house, and the second-class detention building, all the permanent buildings on the station have been brick veneered. This adds greatly to their appearance and will afford considerable protection against fire, whilst also reducing the annual expense of painting these buildings. The slate roofs, also, will not only add to their appearance, but will be a great factor in safeguarding against fire. The new fireproof buildings for the storage of gasoline, distillate, and sulphur will afford a very necessary protection for these highly inflammable materials. Railings have been placed along the roads, where they adjoin the waterfront, rendering them much safer for transit, more especially during the night. The roads in general have been kept in good repair, and the electric lighting of the whole station has been renovated completely, new poles being placed for both telephone and lighting wires, and the old system of arc lamps (of which there were eleven) has been superseded by twenty-five 500 w. Tungsten lamps, these giving a more even distribution of light, particularly around the land boundaries. By the use of these lamps, the capacity of the generating plant has been considerably increased. The telephone system has also been improved, and a central switchboard installed. A plot of ground, nearly an acre in extent, has been fenced off for use as a cemetery.

Prince Rupert, B.C.—No quarantinable disease has arrived at this port. The wharf has been completed and lights placed thereon. The house for the medical superintendent has been completed. The work of clearing the grounds and making preparation for the erection of detention buildings and disinfection building has commenced.

Tracadie Leper Lazaretto, N.B.—Patients at present, nineteen; fifteen of French-Canadian origin, two of English, one of Icelandic, and one of Russian. Ten males and nine females. Deaths during the year, four; new admissions, two. Treatment with Chaulmoogra oil in various forms is being continued. It is being now used in muscular injection in a compound of the oil with camphorated oil and resorcin. The antileprol, the purified product of Chaulmoogra oil introduced by Dr. Bayon, is about to be tried.

The two patients discharged as apparently cured, or at least freed from the disease, in February and November, 1912, remain in good health.

The devotion and care extended to the patients by the nursing religious sisters continue to be above all praise.

Darcy Island Leper Lazaretto, B.C.—There is one patient at this lazaretto, a Chinaman, waiting deportation under the regulations of the Immigration Department.

Public Works Health Act.—Your inspector for Eastern Canada under the Act, Mr. C. A. L. Fisher, states that the year has again been an exceptional one in the almost complete absence of infectious disease amongst the men employed on the various works of railway, tunnel, and canal construction coming under his inspection. He found the medical service given to be complete, hospital accommodation excellent, and the sleeping quarters and boarding of the men to be fully equal to the very good conditions reported previously. And as a rule the sanitary condition of the camps was good. During the year there was an average of 13,220 men employed, with 37 qualified medical officers in charge of hospitals and camps.

Your inspector for Western Canada, Dr. A. E. Clendenan, reports: "When one considers the roving disposition and unkempt habits of many of the employees on railway and irrigation works, it is food for thought that there is so little sickness and so few deaths from other causes than accidents." The epidemic diseases were much less than during previous years of work. The various contracts are reported upon in the order in which first visits were made to them, and the mileage (2,282) and number of employees (24,465) as found at that time.

I have the honour to be, sir,

Your obedient servant,

F. MONTIZAMBERT, M.D.

Director-General of Public Health.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 2.

(G. E. Martineau, M.D.)

Grosse Isle, Que., March 31, 1914.

Sir,—I have the honour to submit this my annual report as Medical Superintendent of the St. Lawrence Quarantine Service, for the year ending this day.

There were 442 vessels inspected this year at the Grosse Isle quarantine station and its subshead at Rimouski.

This total number of vessels inspected shows an increase of 58 as compared with that of last year. Out of the 442 steamers inspected, 262 were passenger boats, which is an average of 60 per cent on the whole, and an increase of 2 per cent over last year.

The personnel of ships inspected consisted of: 10,071 cabin, 59,007 intermediate, 157,372 steerage, 67,014 crews, 59 cattlemen, 45 stowaways, making a total of 293,568 persons, which is an increase of 82,891 over last year, and is the far largest number of passengers ever inspected at this station. It is also an increase of 223,457, or 76 per cent, if we compare it with ten years ago.

Every passenger vessel coming up the St. Lawrence this season landed infectious disease on one or more occasions, with the exception, however, of the ss. *Oceania*, from Trieste, which only made one trip.

The diseases so reported or discovered on inspection and landed here included: Variola, scarlet fever, diphtheria, measles, röthelm, varicella, enteric fever, febriculæ, mumps, and erysipelas.

Patients were landed on 139 occasions.

Deaths during the voyage were reported on 25 occasions, and were due to the following causes: Heart disease, 4; peritonitis, 1; bronchitis, 1; œdema of lungs, 1; syncope, 1; pneumonia, 3; broncho pneumonia, 3; convulsions, 3; lost overboard, 2; fracture of skull, 1; cancer of stomach, 1; accidental, 1; heat exhaustion, 1; suicide, 1; varicella, 1.

Births during the voyage were reported on ten occasions, 7 males and 3 females.

Passengers refusing to be vaccinated were reported on several occasions; but with the exception of twice, on the ss. *Ultonia*, May 8, and the ss. *Victorian*, May 31, their objections were overcome. On the two occasions above mentioned, the objectors were landed for the usual period of observation.

Smallpox infected vessels.—The following is a summary of those steamers on which smallpox was discovered or reported on board, together with principal data connected therewith:

Vessel's Name.	From.	Arrived.	Passengers.			Crew.	Sick.	Landed.	
			1st Class.	2nd Class.	3rd Class.			Passengers.	Crew.
Canada	Trieste	May 14	.....	.....	2190	154	1	501	48
Pisa	Rotterdam	June 20	.....	...	1148	80	1	166	10
Wittekind	Rotterdam	July 12	.....	.....	1265	100	1	219	10
Hartlepool	Marseilles	July 22	.....	.....	.....	29	.....	.....	29
Megantic	Liverpool	Oct. 4	168	441	622	364	2	66	19

The delay caused to vessels by the landing, vaccination of the passengers and the disinfection of the steamers varied from six to twenty-one hours, and we have given all the despatch possible in all cases so that they suffered the least possible delay while taking all necessary precautions to properly carry out our work.

The ss. *Hartlepool* having called at Sidney before coming up here, the smallpox patient was landed there, and permission was given for the steamer to proceed here with the rest of the crew, provided that the period of quarantine for observation be completed at this quarantine station.

All those steamers have received the usual quarantine handling with regard to the disinfection of infected compartments, vaccination of all passengers and crews, etc.

Nearly 7,000 persons have been vaccinated at this quarantine.

The number of persons landed at the healthy division for smallpox observation was 1,068.

Every smallpox patient treated at this quarantine hospital has fully recovered. No further cases have broken out amongst the different groups detained under observation, and they were consequently released upon expiration of the usual quarantine period of observation in such cases.

Suspected case of smallpox.—On November 14, the ss. *Corinthian,* from London, arrived at quarantine, and the ship's surgeon having reported a suspected case of smallpox on board, we examined carefully that case and found it so suspicious that we decided, as a matter of prudence, to take the same ordinary precautions as if we had to deal with a true case of smallpox, pending further developments; but after four days of observation, that case having proved not to be smallpox but simply measles, all detains (73, including crew) were at once released and permitted to proceed.

Amongst other steamers arriving at quarantine station in a very unsanitary condition, we might mention the ss. *Willehad,* from Rotterdam, which arrived on August 29, with 968 steerage passengers, amongst whom were many cases of scarlet fever and measles that had not been isolated on board. We found it necessary then to land all the passengers that had been exposed to contagion (207 in all), and to thoroughly fumigate the compartment occupied by these.

The work at this station is increasing every year, especially at the hospital, where we had this year 1,270 admissions, compared to 943 last year.

Deaths in hospital numbered 16, and were due to the following causes: Meningitis 3, measles 4, diphtheria 2, pneumonia 1, enteric fever 1, scarlet fever 5.

There was also landed for burial at quarantine the body of a child who died on board ss. *Canada* from convulsions.

Preventive treatment by serum has been given to 258 persons.

The large number of people admitted to hospital last season is calling again for the immediate construction of a new hospital to accommodate these, as the one that we have actually is too small and does not meet with our requirements. We had still, as in the previous years, to use tents, barns, old sheds, and also to open a supplementary hospital at the western division so as to isolate the different cases of contagious diseases.

We have always had at the hospital a number varying from 31 to 292 persons at the time. We had also to treat many cases suffering from different complications, such as diphtheria and scarlet fever, measles and scarlet fever, measles and diphtheria, etc., which rendered the situation worse; and many times we were threatened with the spreading of these different contagious diseases all over the hospital on account of lack of accommodation.

I may state here that the above complications were partly due to wrong diagnosis of diseases on board vessels by ships' surgeons. It has already been reported by Dr. Aylen, first medical assistant at this station, who is especially in charge of vessels' inspection, that some of the medical men such as are employed by shipping companies do not seem to be at all at the height of their position; and I would respectfully recommend that necessary steps be taken so as to remedy this state of affairs. A fact that seems to prove that Dr. Aylen's statement is right is that in the course of last season about forty cases of different contagious diseases passed through this quarantine station without having been reported by the ship's surgeon. All these cases having passed during the night time, when we do not make any inspection, and when we have to trust the ships' surgeons' affidavit, the fault rests entirely with these last ones. All these cases have been returned to quarantine station after they had been discovered by the immigration officers at Quebec.

Laboratory.—The following is a summary of the work done at the laboratory during last season: Examinations for diphtheria 509, milk analysis 1, water 2, widal reaction 19, sputum examinations 10, fœces 6, urine 6; total 553.

I am pleased to be able to say here that the new laboratory commenced last year has been practically completed this year. A hot-water furnace and a "Blaugas" apparatus system have been installed therein, and all the appliances received. From now on we can count upon one of the most efficient factors in the discovery of certain infectious diseases. Within a few hours our bacteriologist can say whether suspected case is positive or negative. This is especially worthy in detecting the "carriers;" it is also of great importance for the diagnosis of certain diseases treated at the hospital, such as diphtheria and enteric fever, as it ensures the nature of the disease and gives a final decision in the release of the patients from the hospital.

Rimouski substation.—This advance substation continued this year to be in charge of Dr. L. F. Lepage. Two new medical officers, Drs. A. Bouillon and P. Lord, were appointed last spring in view of the increase from one to three of the weekly mail steamers from Europe. As done in 1912 by Dr. L. F. Lepage, these two new quarantine officers made the inspection last season of the two additional weekly mail steamers on their way up to Grosse Isle; so each mail steamer was sure to find on arrival at Rimouski a quarantine officer ready to come up with her for quarantine inspection, thus doing away with unnecessary delay either at Rimouski or at Grosse Isle, they stopping here only for landing quarantinable diseases.

The following is a summary of the respective work of each of the quarantine officers of this substation:

Dr. L. J. Lepage—		
Number of vessels inspected		40
Number of people examined—		
First-class passengers	4,004	
Second-class passengers	10,525	
Third-class passengers	20,403	
Crew	10,555	
Total		45,487
Number of vessels landing contagious diseases at Grosse Isle		11
Number of contagious diseases landed at Grosse Isle		20
Dr. A. Bouillon—		
Number of vessels inspected		28
Number of people examined—		
First-class passengers	2,311	
Second-class passengers	9,354	
Third-class passengers	18,278	
Crew	8,770	
Total		38,713
Number of vessels landing contagious diseases at Grosse Isle		13
Number of contagious diseases landed at Grosse Isle		48

Dr. P. Lord—		
Number of vessels inspected		28
Number of people examined—		
First-class passengers	3,509	
Second-class passengers	8,871	
Third-class passengers	17,842	
Crew	9,563	
Total		39,785
Number of vessels landing contagious diseases at Grosse Isle		15
Number of contagious diseases landed at Grosse Isle		113

Improvements.—A good deal of work has been done this year at this station. Amongst the most important, I might mention the following which have been practically completed: A new detention building for first cabin passengers; the extension of western wharf 200 feet by 60 feet; a new bakery with modern appliances in western division; a new carpenter shop; a new plumber shop; two new residences, one for bacteriologist and the second one for the second medical assistant; a new cottage for nurses; a new addition to hospital disinfection building.

There are also many other works that have been commenced but not completed, such as the concrete breakwater to protect property against flood in western division; the addition of a new story on dynamo and disinfection building to increase the number of shower baths and improve the system of disinfection for passengers detained under observation. There was also a certain part of the water system put under ground to protect it against frost; and the installation of a new 75,000-gallon water tank for necessary supply of water at quarantine has also been commenced.

Requirements.—A list of the works still required at this station has already been submitted in details to you; but I may perhaps be permitted to mention here some of the most important and urgent ones.

The first one would be unquestionably, as previously stated, the immediate construction of a new hospital so as to give a better accommodation and comfort to the people admitted there. In this regard I am glad to say that the contract for the foundations of this new hospital has been awarded; and I beg to hope that the work will be pushed with activity so that the erection of the hospital itself may be commenced, if possible, this year and completed as soon as possible.

A first step towards the realization of the construction of a deep-water wharf at western division has been taken this year by the lengthening of the old wharf (200 feet by 60 feet); but another lengthening of 200 feet remains to be done, and I have reason to hope that this will be carried out during next season.

As already stated in my last annual report, it will be also necessary to replace the steamer *Alice* by a larger boat fitted as an ice-breaker, this for the reasons already mentioned.

The old wooden sheds, which were built in 1846, should also be replaced by modern brick buildings and appliances.

When all these improvements will be carried out, the Grosse Isle station could be considered as one of the best equipped and most modern for carrying out the work required by the quarantine service.

The whole respectfully submitted.

I have the honour to be, sir,

Your obedient servant,

G. E. MARTINEAU, M.D.,

Medical Superintendent of St. Lawrence Quarantine Service.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 3.

(N. E. MacKay, M.D., M.R.S.C.)

Halifax, N.S., March 31, 1914.

Sir,—I have the honour to submit my report for the year ended the 31st of March, 1914.

During the year 385 vessels—the same number as last year—were inspected, and 203,810 persons classified, as follows: Cabin 4,657, intermediate 25,663, steerage 132,097, crew 41,383, cattlemen 2, stowaways 3, and wrecked sailors 3—46,311 more than last year.

We have had more than the usual amount of work during the year. Three immigrant steamers arrived in port with smallpox, and besides we have had more than our usual complement of minor quarantinable diseases.

Smallpox occurred on the following immigrant steamers: SS. *Ryndam*, from Rotterdam, June 16, 1913—1 case for New York; cc. *Chemnitz*, from Bremen, February 13, 1913—child died of smallpox on voyage; and ss. *Russia*, from Libau, March 6—1 case for Halifax.

Measles were found on the following steamers: SS. *Canada, Graf Waldersee, President Lincoln, Bremen, Frankford, Czar, Potsdam, Rhein, Brandenburg, Neckar, Ryndam, Patricia, Cassel, Hanover, Volturno, Russia, Noordam, Campanello, Dominion, Chemnitz, and Pallanza.*

Diphtheria on the following: *Graf Waldersee, Russia, Andania, Empress of Britain,* and *Alsatian.*

Scarlet fever on the following: *Czar, Palermo, Cassel, Campanello, Carthagenian, Kursk,* and *Aluania.*

Death was reported to have occurred on the following steamers, on arrival in port, from the following causes: *Palermo* (3): scarlet fever 1, inanition 1, diarrhoea 1; *Uranium* (6): pneumonia 2, bronchitis 2, inanition 2; *Campanello* (3): pneumonia 3; *Wellikind* (2): meningitis 1, heart disease 1; *Kursk* (3): alcoholism 1, inanition 2; *Wasgenwald* (1): oedema of glottis; *Pallanza* (1): pneumonia; *Frankford* (1): measles; *Main* (2): pneumonia 1, inanition 1; *Patricia* (1), pneumonia; *Birona* (1): ileus; *Russia* (1): pneumonia; *Cymric* (2): heart disease 1, senile decay 1; *Carthaginian* (1): diarrhoea; *Chemnitz* (1): smallpox (infant).

Diseases other than quarantinable were reported, viz., pneumonia, bronchitis, meningitis, heart disease, alcoholism, inanition, erysipelas, mumps, ileus, epilepsy, diarrhoea, senile decay, broken leg, abscess, and appendicitis.

Number of persons admitted to the hospital 204, classified as follows: Well (families of the sick), 128; measles, 59; measles and diphtheria, 1; diphtheria, 1; diphtheria and measles, 1; scarlet fever, 2; scarlet fever and measles, 1; scarlet fever and chicken-pox, 1; chicken-pox, 7; chicken-pox and measles, 1; and smallpox, 2. In some of the immigrant steamers, when two of the infectious diseases were prevalent, a child taking ill with one of them first sometimes developed the other disease during convalescence, *e.g.*, diphtheria and measles, chicken-pox and measles, etc.

Two deaths occurred at the station, one from laryngeal-diphtheria and the other from measles, which developed during convalescence from scarlet fever. A child developing one disease while recovering from another was due to want of prompt and efficient isolation on board the steamers in every instance.

We have had 616 smallpox contacts in quarantine during the year, 391 ex. the ss. *Ryndam,* June 16, 1913, from Rotterdam. These were detained for eighteen days from date of last exposure; 214 ex. the ss. *Chemnitz,* from Bremen, February 13, 1914; and 11 ex. the ss. *Russia,* from Libau, March 6. The contacts from the *Chemnitz* and *Russia* were detained for fourteen days only from date of last exposure, as the period of detention of smallpox contacts was reduced in the meantime to the normal incubation period of the disease. This was a step in the right direction. Only one case developed smallpox at the station.

In February, when the smallpox contacts were in quarantine, we experienced considerable difficulty with ice in Eastern Passage, as did also the agents of the *Chemnitz* and *Russia.* It so happened that we had at this time very cold weather, and ice formed in the channel rapidly. Provision and other supplies had to be hauled on the ice for about a mile, on a sled. In June, 1913, the contacts ex. the *Ryndam* were nice and comfortable, and everything was easily handled as it was summer weather

The detention buildings are not suitable for winter work. They are mere shells, and it is impossible to keep them warm and comfortable. Smoke in the main building (third detention) bothered us a good deal. This was due entirely to the length of the stovepipes, which filled up with soot every third day and blocked the draft. As a result, the pipes had to be taken down every third day to clean them of soot, which caused much dirt and confusion and annoyance to the people. We felt the need of a wash-house badly.

New buildings are much needed for winter work which could be properly heated with hot water or steam. Then, again, the scarcity of water is a great drawback to our work, and I do not know how this difficult problem can be solved successfully on Lawlor's Island. A new location for a station seems to me the only solution.

Dr. J. J. Heagerty, of Grosse Isle station, assisted me during the five winter months. I have great pleasure in testifying to the faithful and efficient way in which he attended to the work. It was quite a treat to have such an assistant.

All the buildings and plant at the station are in good state of repair. We need more substantial buildings, as the bulk of our work is, and will be, in winter.

All of which is respectfully submitted

I have the honour to be, sir,

Your obedient servant,

N. E. MacKAY, M.D., M.R.C.S., Eng.,
Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 4.

(R. C. Ruddick, M.D.)

St. John, N.B., March 31, 1914.

Sir,—I have the honour to submit my annual report of the St. John quarantine station for the year ended March 31.

There has been 173 vessels inspected at this station this year; this is an increase of 24 vessels compared with last year. The total number of persons inspected were 37,949, classified as follows: Cabin 997, intermediate 5,715, steerage 16,927, crew 14,310.

We admitted to our hospital 35 persons for treatment. Also 7 were detained for observation. The diseases discovered were measles, scarlet fever, mumps, and chicken-pox. All made good recovery.

Improvements.—All our new buildings (consisting of bacteriological laboratory, bacteriologist's house, boatman's house, and assistant caretaker's house) have been completed, and are now being occupied. Our quarantine boat, *Eleanor*, has been extensively overhauled and improved. A first-class detention building is now under construction.

Requirements.—Our most pressing need is a low-water wharf, where we can moor our quarantine boat. The quarantine boat, I am glad to know, has been advertised for tender, and I trust that by next winter's season the new wharf will be ready for her. As it is now, it necessitates Dr. Warwick living in St. John so as to be able to board the quarantine tug to board incoming vessels, as at many times on account of storms we cannot lighter to the tug from this station. The steward's house should be destroyed, as the sanitary conditions are dangerous to the occupants. A new house should be built for the medical superintendent, and the house he now occupies given to the steward. The water pipe has been laid about two-thirds of the way across the channel to the water main in West St. John. The work has been suspended for some cause unknown to me. I think the work could be completed in about three or four weeks.

I have the honour to be, sir,

Your obedient servant,

R. C. RUDDICK, M.D.,

Medical Superintendent.

The Honourable the Minister of Agriculture,

Ottawa.

APPENDIX No. 5.

(J. Baxter, M.D.)

Chatham, N.B., March 31, 1914.

Sir,—I beg leave to submit the following report of the work done at this quarantine station for the last year, ending to-day.

The keeper's house has been raised two feet and the cement work carried up. A hot-water furnace has been placed with radiators through the whole house, making it now quite comfortable, and every part has worked satisfactorily.

A larger and safer gasoline launch has been provided, and twelve feet added to the boathouse to accommodate it. During the past season thirty-five vessels have been examined and 737 men. The crafts consisted of twenty-eight steamers, one bark, three barquentines, and three three-masted schooners.

There were no cases of quarantinable disease noticed among them.

I have the honour to be, sir,
Your obedient servant,

J. BAXTER.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 6.

(Edward DuVernet, M.D.)

Digby, N.S., April 1, 1914.

Sir,—I have the honour to report that the following vessels were examined at this station during the year just ended: Four steamers, one barque, and three schooners. With the exception of one case of measles, these were found to be free from infectious diseases. Persons inspected, 160.

I have the honour to be, sir,
Your obedient servant,

E. DuVERNET, M.D.,
Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 7.

(Wm. McK. McLeod, M.D.)

North Sydney, C.B., March 31, 1914.

Sir,—I have the honour to forward my annual report of this quarantine station for the year just ended.

Since March 31, 1913, there have been inspected 126 arrivals. Of these, 22 have been sailing vessels, and the remainder, 104, steamships. Persons inspected, 3,426.

On July 10 ult., the ss. *Hartlepool*, Thos. Ward, master, from Marseilles, via Louisburg, arrived at quarantine, with fireman Wm. Proctor ill with virulent smallpox. He was removed to hospital, where recovery took place. Steward G. L. Fraser contracted the disease, and also recovered.

The crew were so effectively vaccinated by Dr. Morrison, quarantine officer at Louisburg, that they all "took.' The ship proceeded to Grosse Isle, under special instruction, on July 19.

I have the honour to be, sir,
Your obedient servant,
Wm. McK. McLEOD, M.D.,
Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 8.

(D. A. Morrison, M.D.)

Louisburg, N.S., April 1, 1914.

Sir,—I have the honour to submit herewith my report for the year ended March 31, 1914.

The total number of ships inspected at this station for the year was 34—30 steamships and 4 sailing vessels. Persons inspected, 909.

On the 9th of July the British ss. *Hartlepool* arrived at quarantine with a case of smallpox on board, but as there is no quarantine hospital here, the ship had to proceed to Sydney next day and land the infected there for treatment.

There are times when the ice conditions would not permit a ship to make the port of Sydney, in which contingency a ship with quarantinable disease on board arriving here would be forced to proceed to Halifax, N.S., thereby entailing considerable loss of time with probably serious consequences to the infected person and others on board the ship.

I would respectfully urge on the department the absolute necessity of erecting a hospital at this station with the least possible delay.

All the other ships were free from quarantinable diseases.

I have the honour to be, sir,
Your obedient servant,
D. A. MORRISON, M.D.,
Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 9.

(Peter Conroy, M.D.)

Charlottetown, P.E.I., March 31, 1914.

Sir,—I have the honour to submit my report for the year ended March 31, 1914.

There was no case of infectious disease at this station during the past year. In the neighbouring provinces there was no contagion in epidemic form. Vessels from all points north of the line of exemption were allowed free pratique.

There were six inspections of vessels from the West Indies and from across the ocean. Persons inspected, 44.

The hospital has been provided, during the past year, with a very suitable ice-house, constructed by the keeper from material supplied by the department, affording a much-needed convenience for the preservation of perishable foodstuffs.

The buildings are all in good state of repair.

I have the honour to be, sir,

Your obedient servant,

PETER CONROY, M.D.,

Inspecting Physician.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 10.

(A. A. McLellan, M.D.)

Summerside, P.E.I., April 17, 1914.

F. Montizambert, M.D.,
Ottawa.

Sir,—In reply to yours of the 11th inst., I may say that I entered on my duties as quarantine officer for the post of Summerside on November 1, 1913, and since that time, with the exception of six weeks, the harbour has been closed.

No foreign vessels have entered since my appointment.

I have the honour to remain,

Your obedient servant,

A. A. McLELLAN.

APPENDIX No. 11.

(H. Rundle Nelson, M.D.)

Victoria, B.C., March 31, 1914.

Sir,—I have the honour to submit my first annual report for the year ending March 31, 1914.

The following inspections were made:

—	No.	Compared with preceding year.	
		Increase.	Decrease.
Vessels	169	15	
Passengers:—			
Cabin	5,974	1,034	
Steerage	16,432		1,221
Crews	19,611	5,886	

By this it will be seen that there is a total increase of 5,699 persons examined, though the steerage passengers have fallen off in number, probably owing to more stringent immigration regulations.

Below is a list of persons inspected, other than the passengers and crew of the boats:

Passage workers	6
Distressed seamen	13
Stowaways	58

A total of 3 births, 24 deaths, and 12 cases of non-infectious sickness have been reported at different times during the year.

The inspections have been carried out by the following medical officers:

	Vessels Inspected.
Drs. Watt and Hunter	51
Dr. Fraser	7
Dr. Bapty	25
Dr. Walker	7
Dr. H. R. Nelson	79

Only one vessel was quarantined during the year, the *Monteagle*, which arrived on 30th March, 1913, and was discharged on April 2 with a partial crew, the passengers being detained until the middle of April. Two cases of smallpox had developed, and the last of the patients was discharged during the week ending 3rd May. In the month of May two cases of measles were quarantined here, having been taken from the Japanese ss. *Sado Maru*, and these comprise all the cases that have been detained here during the year.

The following changes in the staff have taken place in the period under notice. On June 18, Dr. J. D. Hunter, assistant medical officer, resigned, and I regret to have to report that on the 28th July following, Dr. A. T. Watt died in St. Joseph's hos-

pital, Victoria, having completed over sixteen years of service as medical superintendent of William Head quarantine station and British Columbia quarantines.

During the late superintendent's illness in hospital, and up to the 22nd September, Dr. Bapty and Dr. Walker carried on the inspection work, and on the 22nd September I was appointed medical superintendent.

Up to the present, no assistant medical officer has been appointed to fill the vacancy caused by the resignation of Dr. J. D. Hunter.

A large number of improvements and additions have been carried out at the station since November last. A waiting and dressing-room for ladies has been built next the ladies' baths, in the disinfecting building, and the extension of the power-house, for the handling of mails and the accommodation of steerage passengers after bathing, will fill a long-needed want. The cold storage house will also be an improvement, the want of which has long been felt. With the exception of the Superintendent's house, the assistant medical officer's house, and the second-class detention building, all the permanent buildings on the station have been brick veneered. This adds greatly to their appearance, and will afford considerable protection against fire, whilst also reducing the annual expense of painting these buildings. The slate roofs, also, will not only add to their appearance, but will be a great factor in safeguarding against fire. The new fireproof buildings for the storage of gasoline, distillate, and sulphur will afford a very necessary protection for these highly inflammable materials. Railings have been placed along the roads, where they adjoin the water front, rendering them much safer for transit, more especially during the night. The roads in general have been kept in good repair, and the electric lighting of the whole station has been renovated completely, new poles being placed for both telephone and lighting wires, and the old system of arc lamps (of which there were eleven) has been superseded by twenty-five 500-w. Tungsten lamps, these giving a more even distribution of light, particularly around the land boundaries. By the use of these lamps, the capacity of the generating plant has been considerably increased. The telephone system has also been improved, and a central switchboard installed. A plot of ground, nearly an acre in extent, has been fenced off for use as a cemetery.

At the present time there is one Chinese leper detained at Darcy island, awaiting deportation during the month of April. The expense of his detention and conveyance to China should be met by the company which brought him into the country, fifteen months ago.

I have the honour to be, sir,
Your obedient servant,

H. RUNDLE NELSON, M.D.,
Medical Superintendent.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 12.

(R. L. Fraser, M.D.)

Victoria, B.C., March 31, 1914.

Sir,—I have the honour to submit my report for the year just ended. Coasting vessels are exempt from inspection. During the year I examined six ocean-going steamers. These were examined during the late Dr. Watt's illness. No case of contagious disease was found on any of them.

I have the honour to be, sir,
Your obedient servant,

R. L. FRASER, M.D.,
Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 13.

(L. N. MacKechnie, M.D.)

Vancouver, B.C., April 22, 1914.

Sir,—I beg to submit my report for the year just ended.

As coasting vessels are exempt from quarantine regulations, no inspections were made at this post during the year.

I have the honour to be, sir,
Your obedient servant,

L. N. MacKECHNIE, M.D.,
Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 14.

(H. Ernest Tremayne, M.D.)

Prince Rupert, April 1, 1914.

Sir,—I have the honour to make my annual report for the year ending March 31, 1914.

No quarantinable diseases of any kind have arrived at this port.

Early in the year the wharf was completed and lights placed thereon.

The house for the medical superintendent has been finished, and as soon as a water supply is provided will be ready for occupancy.

The work of clearing the grounds and making preparation for the erection of the detention building and disinfection plant has commenced.

It will be necessary this year to paint the hospital.

I have the honour to be, sir,

Your obedient servant,

H. ERNEST TREMAYNE, M.D.,

Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 15.

(J. A. Langis, M.D.)

Tracadie, N.B., March 31, 1914.

Sir,—Herewith I respectfully submit for your consideration my annual report as medical superintendent of the lazaretto at Tracadie, N.B., for the year ending March 31, 1914.

There are at present nineteen patients in the institution, ten males and nine females, fifteen of which are of French, two of English, one of Icelandic, and one of Russian origin.

We count four deaths and two admissions during the year.

The ages of our inmates vary from ten to eighty-four years. Fifteen are natives of this province. The four others are: One Canadian-born, one from Barbados, one from Iceland, and the last from Russia.

The health of the inmates during the year was, generally speaking, fair. They have been exempt from intercurrent illness. The causes of death were: One, congestion of the lungs; the patient had contracted a severe cold; he was in the second stage of leprosy. The three others were in the last stage of the disease.

As customary during the year, tours of inspection have been made to the families of our patients, who live in outlying parishes; they all keep free from the disease.

The two patients discharged in February and November, 1912, visited since my last report, are still in good health, though both, being in poor circumstances, have to work hard for their living.

Our treatment consists of Chaulmoogra oil in different forms, and general tonics. Recently, at the suggestion of your Director-General of Public Health, Dr. F. Montizambert, we are using a compound of Chaulmoogra oil, camphorated oil and resorcin. 5 cc. to 10 cc. of this medicine is injected in the gluteal muscles once a week.

By your generosity, we will soon be well supplied with Bayer's antileprol, and will give this medicine a fair test.

It is pronounced superior to Chaulmoogra oil, being its purified product, and as such can be taken in larger doses without gastric irritability. Digestion, assimilation and appetite, it is said, are not impaired as with the crude oil.

The patient reported in 1913 as being much improved, under the Nastin treatment, is still showing signs of improvement, though not having received any injections of the bacterial substance since last November. They all had such an aversion to the hypodermic needle then, that I have decided to give them a few months of rest. The new compound is more readily accepted by a few patients, for there is not such a burning sensation, after the injection, as with Nastin.

Our patients are pleased with the general management of the institution. They are also pleased with the efforts made to provide them with games and musical entertainments during the winter months, and for the tenderness and sympathy with which they have been nursed when ill.

In response to your call, I went to Winnipeg about the middle of March to bring a patient to the lazaretto. This patient is a Russian woman, aged 39, and an advanced case of leprosy of the nodular anæsthetic form, or mixed leprosy.

She was in the isolated ward of the General hospital, "The Annex." Her case being already diagnosed by the attending physicians, there remained nothing for me to do except to secure a special colonist car, and have it equipped for the journey to Tracadie, N.B., which took five days.

The nurse who had charge of the case at the General hospital accompanied the patient to her new home, the Lazaretto, and did all she could to make her comfortable in the circumstances.

I was delayed in Winnipeg for a few days, getting the car ready and arranging connections.

I have the honour to be, sir,

Your obedient servant,

J. A. LANGIS, M.D.,

Medical Superintendent the Lazaretto.

The Honourable the Minister of Agriculture,

Ottawa.

APPENDIX No. 16.

(Chas. A. L. Fisher, J.P.)

Montreal, March 31, 1914.

Sir,—I have the honour to submit the following report for the year ended March 31, 1914, as inspector under the Public Works (Health) Act, 1899, for the territory from Winnipeg east to the Atlantic ocean.

During that period I have personally visited and inspected all such works covered by said Act as have been brought to my notice.

The term has again been an exceptional one, in the almost non-appearance of contagious and infectious diseases among the men employed on the various public works of the Dominion coming under my inspection, but there was an outbreak of typhoid fever in three of the camps of the Canadian Northern works, east from Nipigon.

I am pleased to be able to report again that on my several tours of inspection of the public works of the Dominion in my district for the past year, I found the medical service given to be complete, and the sleeping quarters and boarding of the men to be fully equal to the very good conditions in that way reported previously.

The number of public works coming under the regulations of the Act, in the territory east of Winnipeg, have been comprised of railway, tunnel and canal construction.

The following is a detailed report of the works I have personally visited and inspected during the past twelve months, as coming under the regulations of the said Act:

NATIONAL TRANSCONTINENTAL RAILWAY.

This road is being built by the Dominion Government, and at present all the sections between Winnipeg and Moncton, N.B., have the steel laid, and are under final construction, or have been completed.

I am pleased to report that on my visits to the works on said sections I found, as previously, excellent hospital accommodation provided, and a duly qualified physician as district medical supervisor over each section of camps, which could be conveniently covered by him within the requirements of the regulations.

There had been no outbreak of contagious diseases, and the health of the men had been excellent.

I give below the extent and location of the camps, with other particulars of the works carried on by the various sub-contractors:

Superior Junction Section.—From Superior Junction east for 150 miles to junction of the western section, let to Messrs. E. F. and G. E. Fauquier. This is under contract to Messrs. O'Brien, Fowler and McDougall Bros., who have their headquarters at Superior Junction, Ont.

J. E. Joseph, of Pembroke, Ont., is the chief medical officer for the contractors, and J. M. McGrady, M.D., of Port Arthur, is the medical officer in charge of the work.

Superior Junction camps.—Four gravel pits operated by the contractors, and Messrs. Morris, Mackie and Co., being the sub-contractors; also a steel gang operated by the chief contractors.

About 700 men were employed, who were located in five camps, and housed and boarded in log and board dwellings by the contractors and sub-contractors, and the steel gang in boarding cars.

There were no cases of contagious disease, and the health of the men and the sanitary conditions were good. There have been a few minor accidents, and one death from fracture of spine. Two good hospitals are maintained on the work, one located about twelve miles from Superior Junction, and the other towards the east end of the contract. W. Graham, M.D., and G. E. Denison, M.D., have been the medical officers in charge, with John Brandon, M.D., as general medical supervisor. Five months ago W. Graham, M.D., resigned, and was succeeded by J. Mackenzie, M.D.

Nipigon Section.—From the east end of O'Brien, Fowler and McDougall Bros.' contract, east 75 miles. This is under contract to Messrs. E. F. and G. E. Fauquier, of Ottawa, who have sublet it to the Nipigon Construction Company, Limited, who have their headquarters at Nipigon, Ont. This work is about completed, the steel thereon having been laid by Messrs. O'Brien, McDougall and O'Gorman.

Missanabie Section.—This is under contract to Messrs. M. P. and J. T. Davis, of Quebec, who have sublet it to Messrs. O'Brien, McDougall and O'Gorman, the contract covering the route from the east end of the Nipigon work, for 150 miles farther east, to the junction of the Abitibi work, under contract to Messrs. E. F. and G. E. Fauquier.

Missanabie camps.—Messrs. O'Brien, McDougall and O'Gorman looked after the work themselves, there being only one sub-contractor, and about 1,200 men employed, who were located in thirteen camps, and housed and boarded in wooden buildings.

There were three deaths, two by falling bridge, and one by falling tree. The general health of the men was excellent, and the sanitary condition of the camps was good. There were two hospitals on the work. A. Henderson, M.D., of Cochrane, Ont., is the chief medical officer, and he had two assistants, one in charge of each hospital, as follows: Dr. Kinsey and Dr. Lipman. A train has been running on this section, and the work is nearing completion.

Abitibi Section West.—From about 8 miles west of the Abitibi river crossing, westerly for 100 miles. This is under contract to Messrs. E. F. and G. E. Fauquier, of Ottawa. Access thereto is had from Cochrane, Ont. A. Henderson, M.D., was the chief medical officer of the work, with residence at Cochrane.

Trains have been running over this section for a year, and there have been no camps thereon, the work being completed.

Abitibi Section East.—From about eight miles west of the Abitibi river crossing, easterly for 150 miles. This section is under contract to the Grand Trunk Pacific Construction Company, and was sublet by them to Messrs. Foley, Welch and Stewart, who had their headquarters at Cochrane, Ont.

Only one hospital has lately been maintained on the work. John McCombe, M.D., is the chief medical officer, with two district medical officers as assistants.

Abitibi East camps.—After the steel was laid and trains running, the Grand Trunk Pacific Construction Company took over the unfinished work, with Bell and McMullin as their sub-contractors.

About 400 men were employed, who were located along the line in three camps and several house cars, and boarded and housed in wooden buildings and cars by the contractors. There was one death, from accident. The general health of the men and the sanitary conditions of the camps were good. One excellent hospital was

maintained for these camps, located at Peter Brown creek, within easy access to the construction works and camps. D. R. Cameron was the resident medical officer latterly on the work, and had the assistance of Dr. C. O. Hamilton in the early part of the season. This work is now about completed.

Ontario and Quebec Section.—From the easterly limit of the Abitibi East Section, sublet to Messrs. Foley, Welch and Stewart, to a junction with the Quebec West Section at Weymontachene, Que., about 250 miles. This work is under direct contract to Messrs. Macdonnell and O'Brien, and entrance thereto is over their other contracts for the Transcontinental, lately completed by them from Harvey Junction, Que. John McCombe, M.D., is the chief medical officer of the work.

Ontario and Quebec camps.—Messrs. F. Munro and Co., Macdonnell Co., M. McCarthy, Doheny and Gordon, H. McKinnon, O'Brien and Martin, Shea and Egan, are the sub-contractors.

About 1,900 men are employed, who are located along the line in thirteen camps, and boarded and lodged in wooden buildings by the sub-contractors.

There was one case of erysipelas, one of measles, and one of phthisis. There were eight deaths: two drowned, one accident, one appendicitis, one phthisis, one acute diarrhœa, one embolism, one pulmonary tuberculosis, and one fracture of skull. The general health of the men and the sanitary conditions of the camps were good.

Three hospitals were maintained for these camps: No. 1 being a very large main hospital, with four separate wards, and located alongside the track; No. 2 was at Atik river; No. 3 is located at Peter Brown creek, as convenient as possible for the west camps of the work.

Doctors Thos. H. Jackson, J. P. Benny, J. C. Smith, and D. R. Cameron were the district medical officers of the work, residing in the hospitals. John McCombe, M.D., the chief medical officer of the work, resided at the hospital, west from La Tuque, and took charge of and gave the work his general supervision.

Nos. 1 and 2 hospitals are now closed, Dr. Benny transferring to other work, and Thos. H. Jackson, M.D., remains on the eastern end, with headquarters at Parent, and looks after the few men at present employed. Trains have been running over the whole section, and it is nearing completion.

CANADIAN NORTHERN ONTARIO RAILWAY.

Port Arthur, Sudbury Section.—This road is being built by Messrs. Mackenzie, Mann and Co., from Port Arthur to Ruel, Ont., a distance of about 550 miles, and when completed is to form part of the Canadian Northern transcontinental line from the Pacific to the Atlantic oceans.

Messrs. Foley, Welch and Stewart and the Northern Construction Co. are the chief contractors. Messrs. Mackenzie and Mackenzie, M.D.'s, are the chief medical officers of all the work, and have their headquarters at Winnipeg.

There were a number of sub-contractors, and about 5,000 men were employed, who were located along the line in about thirty-five camps, and housed and boarded by the contractors, and the various sub-contractors, in good wooden buildings. There were thirty-five cases of typhoid fever (confined to three camps), and nine deaths, two from an explosion, and seven from typhoid. There were eight hospitals located along the line, under the supervision of C. M. Burroughs, M.D., who made his headquarters at Sudbury, and he had during the year the following medical officers under him, and who resided at the various hospitals, viz.: S. R. Zealland, J. J. Middleton, E. M. Ellis, C. R. Young, N. J. Barton, Wm. Cody, E. Evans, R. A. Dick, E. Laurie, T. M. Sexton, W. W. Smith, and W. Wellman.

Section between Sudbury and Ottawa.—This is another part of the Transcontinental line, and is under contract from Sudbury to Pembroke, Ont., by Angus Sinclair, C.E., as chief contractor.

J. Mitchell, M.D., of Toronto, is medical superintendent of this section.

There were a lot of sub-contractors, and about 2,000 men were employed, who were housed and boarded by the various sub-contractors in wooden buildings and house cars located along the line. There were no serious diseases, but there were seven deaths, two from asphyxiation, one from heart failure, and four from drowning

The St. Joseph hospital at Sudbury and the hospital at Mattawa were used when necessary. W. N. Robertson, J. R. Boyd, H. G. Dowse, and M. G. Thompson, with Dr. Brandon, of North Bay, were the medical officers of the work.

Trains have been running over this section, and the work is about completed.

CANADIAN NORTHERN QUEBEC RAILWAY.

Tunnel under Montreal mountain.—This is a part of the work in connection with a Canadian Northern transcontinental railway, and will give that road a western entrance into the city of Montreal. Messrs. Mackenzie, Mann and Co., of Toronto are the chief contractors, and Mr. Sidney P. Brown is the chief engineer in charge of the work

About 600 men are employed, most of whom live in their own houses, and the balance in houses provided by the contractors. The men are boarded by the Consolidated Boarding and Supply Company, of Montreal.

There have been no contagious diseases or fatal accidents, but there were two deaths, one from fracture of the skull, and one from blood poisoning. An emergency hospital is maintained at the West Portal camp. Doctors Mackenzie and Mackenzie, of Winnipeg, are the chief medical officers, and J. A. Charette, M.D., of Montreal, is the medical supervisor of the men employed.

This has been an exceptionally speedy piece of work, and the engineers in charge deserve considerable credit therefor.

THE ALGOMA CENTRAL AND HUDSON BAY RAILWAY.

Main line extension.—From Mile 68 to a connection with the Canadian Pacific railway at Hobon, Ont., thence to a connection with the Canadian Northern railway at Oba lake, and thence to a connection with the Transcontinental railway at Hearst, Ont. The Superior Construction Co., Ltd., of Sudbury, Ont., T. J. Kennedy, of Sudbury, Ont., and Bourke and McGinnty, were the chief contractors.

About 1,000 men were employed, who were located in six camps distributed along the route, and were housed and boarded in wooden buildings by the said contractors or the Federal Commissary and Supply Co.

There were no cases of contagious disease or serious accidents, and no deaths.

The general health of the men, and the sanitary conditions of the camps were good.

Two good hospitals were maintained on the work, one at Hobon, and one at Hearst. R. McLean, M.D., of Sault Ste. Marie, Ont., is the chief medical officer, and had two assistants during the year as district medical officers on the work.

All work on this line has been closed down since last November.

WELLAND SHIP CANAL.

This canal is being constructed by the Dominion Government, and the work is divided into nine sections, four of which tenders have been called for, and the work let as under, viz.:

Section No. 1.—This has been let to the Dominion Dredging Company, who have their headquarters at Ottawa. The contract calls for one and a half miles of excavating, and one and a half miles of dredging. Camp No. 1 is situated at Port Weller, Ont., and up to the present only about 150 men have been employed, who were housed and boarded in frame buildings by the company. There had been one case of typhoid fever, but no deaths, the general health of the men being good. A camp hospital has been erected at Port Weller, and until a permanent hospital has been erected for the work, the General and Marine hospital at St. Catharines is being used.

John McCombe, M.D., is the chief medical officer of this section, and he has James J. Benny, M.D., as district medical officer thereon.

Section No. 2.—This has been let to the firm of Baldry, Yerburgh, and Hutchinson, of London and St. Catharines, and calls for five miles of excavation. Yale and Regan, and Hill and Leonard, are the only sub-contractors yet on the work. Only about 100 men are employed up to the present, who are housed and boarded in frame buildings by the sub-contractors.

There have been no serious diseases or deaths on the work, the health of the men being good. At the present time the General and Marine hospital at St. Catharines would be used if necessary.

John McCombe, M.D., is the chief medical officer of this section, and at present Dr. Benny is the district medical officer.

Section No. 3.—This has been let to Confederation Construction Co., Limited, with headquarters at Thorold, Ont., and calls for the excavation of two and one-half miles.

Camp No. 1 is at Thorold, and about 200 men are employed, who are housed and boarded in frame buildings by the Harris Abbatoir Company.

There were no cases of contagious disease, or deaths, the general health of the men being good. A camp hospital has been erected at Thorold, and at present the General and Marine hospital at St. Catharines is used when necessary.

John McCombe, M.D., is the chief medical officer of this section, and James J. Benny is the district medical officer thereof.

Section No. 5.—This has been let to the Canadian Dredging Company, who have their headquarters at Midland, Ont. They have appointed Doctors Colbeck and Streight, of Welland, to take charge of their medical service. Work has not yet been commenced on this section.

In order to secure a first-class medical service on all the sections of the Welland Ship canal, I beg to make the following remarks and suggestions, viz.:

That the medical service required is not the best possible service, but the best that can be given for the amount of money limited by law, and collectable from the men. For instance, on the Panama canal, the sum voted annually by Congress to the medical service is $1,600,000. Of this, $600,000 is used by what they term the Sanitary department, and fairly represents the amount required to make up for the difficulties of tropical medicine. The remaining $1,000,000 represents something over three dollars per man per month, for every workman. In addition to this, their hospitals at Colon and Ancon, as also the Sanitarium at the island of Tobogo, were largely built by the French, and served to give the American Medical Service a good start. In the province of Ontario, the deductable amount is fixed at one dollar per man per month, so that the medical service must make its plans accordingly. On looking over the work with this in mind, it is obvious that if the contractors are willing to come under the same service, the revenue will be increased, without a corresponding raising of expenditure, and so allow of more money being put into equipment, and the general improvement of the service, with resulting benefit to all.

The following suggestions are therefore submitted with the idea that they can be expanded or contracted according to the number of men coming under the service. The medical service should have its own doctor or doctors, and its own hospitals, etc. All construction work, in my experience, having proved this to be the only satisfactory method for the men, contractors, and the service itself.

In regard to this canal work, it is more necessary to have ample accommodation, for any outbreak of infectious disease, in order to guard the surrounding population, should a severe outbreak arise. Most contractors, or contracting companies, wish to do their utmost to assist in keeping free from disease any of their camps or works, so far as is possible, by adopting any reasonable suggestions which the chief engineer, the doctor, or the inspector makes.

In looking into the question of water supply in connection with the said canal work, I find that Thorold, together with other nearby towns, get their water from the present new Welland canal. Although it is prohibited to allow any drainage to enter this canal, the law is constantly broken by passing steamers, which dump their latrines directly into the water. The result of this is, of course, that the Thorold water contains sewage bacteria, and may at any time harbour the bacillus of typhoid. There is a still more dangerous source of infection, in the presence of 'Ten-mile creek,' which is a small stream arising a little above Thorold, and running down the new location to Port Weller, where it enters lake Ontario. It is infected with sewage from Thorold and other places by means of small tributaries. The wells used by farmers on the properties expropriated by the Government, offer the best water supply, and I would advise the contractors to give the 'water boys' orders to draw from these wells only.

In regard to latrines, I have to recommend the pit closet, provided that the pit is dug deeply, and made fly proof by a proper building above, and being kept cleanly, by the daily covering of the fæces by earth or sand, preferably mixed with lime. As to the disposal of slop water, I think a system of distributing porous pipes, such as are used in farm drainage, leading from the main discharge pipe, and buried about a foot below the surface of the soil, would give the best results. As to the disposal of garbage, old tins, etc., these should be either burned or buried.

Every doctor should be licensed to practise in Ontario, and experienced in this class of work where possible, and should confine themselves to the work on the canal, and thereby avoid friction with local doctors. They should attend the patients in the base hospital, visit all dispensaries at regular times, frequently go up and down the line, and thereby get in touch with the workmen, and should act as Public Health officers on their immediate work.

A good base hospital for each medical service should be established as soon as possible, and it should have ample accommodation for medical and surgical cases, together with a separate building for infectious diseases, and separate quarters for the nurse or nurses, together with laundry, store house, etc. The staff should consist of a female nurse or nurses, and a general servant. There should also be a male hospital orderly, and the doctor or doctors should make it their headquarters. This hospital should be located about the middle of the work covered by the service. On every contract where there is not a base hospital for the work, a camp hospital should be erected, placed in charge of a medical officer, and be provided with a full supply of drugs and instruments required in minor surgical work. As each of the sections cover several miles, there should be an ambulance, or good substitute, attached to each base hospital, and each camp hospital should be provided with a stretcher, interchangeable with that on the ambulance (if there is one), so that a man can be carried from the place at which he was injured, attended to in the camp hospital, and

later taken in the ambulance to the base hospital, without having to be taken from the stretcher, thus avoiding the injury resulting from movements of the fragments of a broken bone, etc.

Emergency tents, with the necessary furniture, should be on hand at the base hospitals, or other convenient place, so that they can be put up at any time should an emergency such as a severe outbreak of infectious disease occur

Medical chests, containing simple medicines, dressing, etc., should be provided at every camp, dredge, etc., and the timekeeper or clerk instructed by the doctor on its proper use. First aid can thus always be administered, and the patient kept in the best condition until the doctor's arrival.

I am pleased to say that the above suggestions, etc., are now being carried out by John McCombe, M.D., on his medical contracts on sections Nos. 1, 2 and 3 of the Welland Ship canal. In regard to the polluted water mentioned above, the employees on the work have been forbidden to drink it, and Doctor McCombe has had printed notices to that effect posted in various conspicuous places over the three sections covered by his medical service.

On the above public works in the territory east from Winnipeg, Man., during the term reported on, there was an average of 13,220 men employed, with 37 qualified medical officers in charge of camp hospitals and camps.

Cases of contagious and infectious disease.—Measles 1, tuberculosis 1, typhoid fever 35, erysipelas 1, phthisis 1; total, 39.

Deaths and causes as under.—Appendicitis 1, phthisis 1, acute diarrhœa 1, embolism 1, tuberculosis 1, typhoid fever 7, fracture of spine 1, fracture of skull 2, heart failure 1, blood poisoning 1, asphyxiation 2, explosion 2, drowning 6, accidents 5; total deaths as above, 32.

In closing this, my report for the twelve months ended March 31, 1914, I am pleased to again be able to draw your attention to the abatement of contagious and infectious diseases (with the exception of typhoid fever in three camps east from Nipigon), the general healthfulness of the men, the good sanitary conditions of most of the camps at said works, and the attention given by the companies, contractors, sub-contractors and medical officers in trying to comply with the requirements of the regulations under the Public Works Health Act, 1899.

In concluding this report, I beg to again suggest for your attention, that for the benefit and convenience of contractors and district medical officers of camps, and for the welfare of employees on public works, that the regulations at present applying under the said Act, be amended with as as little delay as possible.

I have the honour to be, sir,

Your obedient servant,

CHAS. A. L. FISHER,

Public Works Health Inspector.

The Honourable the Minister of Agriculture,

Ottawa.

APPENDIX No. 17.

(A. E. Clendenan, M.D.)

Edmonton, Alberta, March 31, 1914.

Sir,—I have the honour of submitting the following report for the year ending March 31, 1914:

The volume of work under my inspection, which covers Western Canada, has been greater this past twelve months than in any previous year. While the Canadian Northern railway and the Grand Trunk Pacific did not build up to their expectations of the earlier part of last season, their energies on the main lines to the Pacific coast and the unusual strides of the Canadian Pacific railway ran the total mileage very high.

When one considers the roving dispositions and unkempt habits of the employees on railway and irrigation works, it is food for thought that there is so little sickness and so few deaths from other causes than violence. Deaths due to accidents are mainly from a too great familiarity with dynamite, breeding carelessness; and also recklessly undermining dirt banks causing slides just big enough to seriously squeeze one or two men at a time.

During the first half of the past year, and for the three years preceding, there was an ever increasing demand for labour. If a man "took his time" to-day he could get a job to-morrow at the next camp or with a near-by company. Seldom does he go to work until his pittance is dissipated. Wages have kept increasing and the services rendered have kept lessening. Every average man has had an opportunity, if he possessed energy and ambition and morals, to have gotten a start to make a home. Excepting a fractional percentage, employees to-day are only averaging one week to ten days on a job, whereas four years ago they averaged about three weeks. The direct result of good times has been a degeneration of approximately fifty per cent. I note these observations to account for the discontent and murmurings so often seen in the newspapers, and to point to the fact that self destruction bears more heavily on the improvident, whom I check over, than contagious and infectious diseases.

The following contracts, which include all the public works subject to inspection in Western Canada, have been visited as frequently as the conditions called for:

Canadian Northern Railway.—On the main line between Edmonton, Alberta, and Vancouver, B.C., there has been during the entire year every stage of construction from breaking new ground to the finishing of steel bridges and extending all the way from 125 miles west of Edmonton to within 60 miles of Port Mann on the Pacific coast, a distance of some 600 miles. The west end of the work from Kamloops towards the coast is easily accessible from the main line of the Canadian Pacific railway. Track is now laid from Kamloops up the North Thompson river to mile 123, where a large bridge is under construction. Grading is nearly completed for another twenty-five miles, and then occurs the last two sub-contracts of ten miles each by S. D. Hogan and C. N. Parsons that closes the final gap in construction between the west end and the east end through the Yellowhead pass and toward Edmonton. The contractors are the Northern Construction Company. The work is all sublet, and the chief sub-contractors are Twohy Bros., A. Murdock, Grant Smith, Swan and Benson, Graff Construction Co., Armstrong

and Morrison, Martin Nelson, S. D. Hogan, Palmer Bros. and Henning, Phelan and Shirley, and C. N. Parsons. To trace the movements of those contractors and the large number of smaller ones from one part of the work to another would make an involved and unnecessarily lengthy report. At the time of first inspection this year there was 1,723 employees, and this number ran up during the summer to 4,011 in the early part of November. There has been a good medical service given by Doctors Mackenzie and Mackenzie, of Winnipeg and Vancouver. They employed on the grade Dr. Howell and Dr. Asselstine up the North Thompson; Dr. Ford, of Wallachin, Drs. Bennett and Irving, of Kamloops, Dr. Wightman, of Ashcroft, Dr. Jardine, mile 86 British Columbia, Dr. J. A. Briggs, mile 49, Dr. Niven, of Fitzhugh. Town hospitals were used when available along the main line of the Canadian Pacific railway. Throughout the rest of the line, grade hospitals were employed. There was reported: 1 case scarlatina, 14 typhoid, 3 pneumonia, 5 broken legs, 2 broken ribs, 1 broken back, 2 broken pelvis, 3 drowning.

Bassano-Swift Current, Canadian Pacific Railway.—This line was completed by finishing the grade between Bassano and Empress in Alberta. Janse Boomer and Hughes were the chief contractors, and sublet to Jackson, Clifford, D. Fitzgerald, McCorkindale and Janse, Noehrein and Mannix, Warren and Carson, Larsen, McDonald and Riley. There were 850 employees for a short time along some sixty miles of grade in charge of Dr. Pickard, who was employed by Dr. Ker and Anderson, of Basson. Hospital cases were sent to Bassano to Dr. Anderson.

Canadian Pacific Railway Irrigation Works.—The tributaries to the large ditches were dug during the season 1913, and this entire contract thereby completed after several years' work. Janse, McDonald Co., had the main contract, and sublet to Noehrein and Mannix, F. Jackson, Kimball Bros., Worth, McLaughlin, Larsen, Marshall, Calliway, McKinney Co., Janse Bros. and Tilley, Geo. Jackson, all of whom again let the smallest ditches to small contractors. J. McKinery contracted for all the wooden bridges, and Kettlewell and Sissons for the steel bridges. There were 1,815 employees in all. The mileage covered by the doctors can only be estimated at 120. The farthest out point, with the hospital at Bassano as the centre, was twenty-eight miles. There was on this work Drs. Anderson and Scott, of Bassano, Drs. Kenny and Fraser, of Brooks. The hospitals were employed in both towns. With the exception of a few cases of typhoid in a sub-contractor's camp, the health conditions were good this year. For the two years previously there was more typhoid on this work than on any other prairie contracts.

Canadian Pacific Railway Bow River Bridge, on the Suffield-Kipp line.—J. R. C. Macready was in charge for the company, and had 100 men engaged. Dr. Smith, of Medicine Hat, was in attendance and used the Medicine Hat hospital. Grading under contract for the previous year was finished by J. G. Hargreaves, and Brandenbury, with 65 men, who were looked after by Dr. Scott, of Bassano.

Canadian Pacific Railway Gleichen-Shepherd Cut-off.—J. A. Sangren had two camps of his own and sublet the remainedr to Goodman, Carlson, Rose and Wrixton, Smith and Hansen, Sandahl, and Swanson. One hundred and eighty-nine men were employed on the thirty miles of work, and were in charge of Dr. Salmon, of Langdon. None of these small camps in this district suffered from contagious or infectious diseases.

Canadian Pacific Railway, Coronation to Sedgewick.—Janse, Boomer and Hughes, with sub-contractor John Timothy and his sub-contractors did this branch with 185 employees. There were twenty-four miles. Dr. Hurlburt, of Coronation, with a hospital at Coronation, attended the men, and reported one case of measles, and two of pneumonia, with one death from the latter, besides minor ailments

Grand Trunk Pacific, Weyburn-Talmage.—John Bradley was the contractor. His sub-contractors were Winslow, Lindsay, Wright. There were 50 men on 13 miles looked after by Dr. Nickle, of Weyburn, Sask.

Grand Trunk Pacific, Boundary, in Sask.—Noyes and Davis, Gorden Wilson and Hansen, and Latimer, with 85 men, finished this 15 miles, and Dr. Murison looked after the men from Oxbow.

Grand Trunk Pacific, Moosejaw-Regina, and Moosejaw-Northwest.—Was finished this season by Marsch, Siems Carey, Hyland and Galloway and small sub-contractors, with 100 men on 7 miles, in charge of Dr. Bawden, of Moosejaw. No sickness existed.

Canadian Pacific Railway, Double-tracking Regina-Indian Head.—Jas. O'Connor was chief contractor, with headquarters at Qu'Appelle. His sub-contractors were Kuhns, Ryan Bros., Doherty, Powell and Beatty, Tracy, Butterworth, Cowan and MacPherson, Foshnier, Moore, O'Hanlan and Riley, Williams. There were 300 men on 40 miles of work, with Dr. Scott, of Indian Head, in charge. A number of camps were found to be without a proper outdoor service, but a letter of instructions to Dr. Scott to present to the contractors put matters right.

Canadian Pacific Railway, Double-tracking from Grenfell to Whitewood.—Was done by L. B. Wilmot, of Broadview, with Bryson, Sutherland and Waters as sub-contractors; 125 employees were on this 30 miles, and were taken care of by Dr. Wilmot, with a hospital at Indian Head.

Canadian Pacific Railway, Kerrobert to Consort, Alberta.—Janse, Boomer and Hughes sublet the finishing of this line to the Northern Construction Co., who in turn sublet to Madden, W. Hopgood, MacKenzie, Allen Bros., McLean, McDonald and Donald, Samson, Doyle, Dechene, and Panlon. There were 321 men on 60 miles, with Dr. Neville, of Kerrobert, in charge, and Dr. Preston on the grade. The hospital was 25 miles west of Kerrobert. No sickness of consequence occurred, and one death was caused by a kick from a horse.

Canadian Pacific Railway, Weyburn-Lethbridge.—The contractor was Edward Peterson and Co., who had one camp of his own and sublet the balance to Studer and Gorman, John Fitzgerald, Pearson and Son, Ericksen, Thomplins, Samson, N. Peterson, Keck Bros., Scholtz and Son, Shipman Bros., Caughey Bros., Olsen and Nelson, O'Connor, Higdon Ker and Brandenburg, McKenna, Higgins, Daly, Barnes Bros., Machelvey, Gorman Bros., Whelan, Duggan and Young, Berger, Kerr, Gibbs Bros. There were 1,196 men on the contract stretched along 145 miles. Dr. H. A. Cullum, of Notre Dame, and Dr. Pelletier, of Viceroy, did the grade work by using motor cars, and sent hospital cases to Dr. Smith at the General hospital, Swift Current, and Dr. Dawson at the Maple Creek hospital. There were only two typhoid and one death reported during the working season.

On the west end of this line from Stirling east was a 25-mile contract to H. G. Webster, who sublet part of the work to Hoglund, Dunwoody, Hargraves and Brooks, Miller, Gus Smith, Thacker, Rollings, Anderson. Only 100 men were at work finishing from the year before Water could only be obtained with difficulty from wells and creeks at a distance, but proved throughout the whole time to be sufficient from a health point of view. Dr. Harris, of Taber, with a hospital at Taber, was in charge of Webster's contract.

Canadian Pacific Railway, West End of Suffield-Kipp Line.—Was finished for 27 miles by G. H. Webster and six sub-contractors with 175 men, early last summer. Dr. Harris, of Taber, and Dr. Bryans, of Carmangay, were in charge.

Canadian Pacific Railway, Swift Current-Chaplin Double-tracking.—The Northern Construction Co. took this contract from the Canadian Pacific railway and sublet all of it to Boomer, Hughes and McKinney, McCarty and McDonald, Wilson and Fraleck, Milton, McKenzie, Emfold, Nolham, Herbert; 311 employees on 60 miles were attended by Dr. McLean, of Swift Current, with a hospital at Swift Current, and he was assisted by Dr. Ross on the line. There was no sickness of consequence.

Hudson Bay Railway, from The Pas to Thicket Portage.—The chief contractors are J. D. MacArthur and N. Boyd. They have sublet to McMillan Bros., who have caches every ten miles. They have sublet to 800 station men. There were also 50 freighters at work. One hundred and sixty-five miles were covered by sub-contractors. Dr. Orok, M.P.P., of The Pas, is in charge. Assisting him are Dr. Hogan, of The Pas, Dr. Holmes at mile 67, and Dr. Beavens at mile 125. There were hospitals at The Pas, mile 67 and mile 125. Quite a proportion of the route was done from canoes. The record was extraordinarily good; only one death had occurred, and that from drowning.

Grand Trunk Pacific, The Brandon-Hart Branch.—Was finished early by John Bradley and 3 sub-contractors with 119 men. They were on the last 9 miles out of Brandon. Dr. Templeton, of Brandon, was in charge, and used the Brandon hospital.

Canadian Pacific Railway, Kenmay-Virden Double-tracking.—This work was finished by the end of July by McPherson and Dutton, Richards, and McRae. Four hundred men were on 32 miles, and attended by Dr. Templeton, of Brandon. Two typhoid cases had occurred.

Canadian Pacific Railway, Snowflake West.—This was a 9-mile extension done by D. F. MacArthur with 40 men, looked after by Dr. Smith, of Snowflake, Man.

Gimli-North, Manitoba.—Sixty men were employed on this 26-mile extension, and Dr. Raymond, of Gimli, was in attendance. Foley, Welsh and Stewart were the contractors.

Canadian Pacific Railway, Bergen-easterly, Manitoba.—Foley, Welsh and Stewart sublet this to John Marsch, who employed 300 men on their train and track and steam shovel gangs. It was a 3-mile contract in charge of Dr. Gunn, of Kenora. No sickness of importance was reported.

Canadian Northern Railway, Camrose-Coronation.—Nochrein and Mannix were the first contractors of 59 miles, on which was 202 men. The sub-contractors were MacArthur, Morrison and Cusach, Schultz, Kelly and Ferris, McLeod, Cummings, Nelson Bros., and other minor ones. Dr. Stewart, of Camrose, had the medical work, and Dr. Smith did the road work with a motor. No sickness of importance occurred. One complaint came in that was readily adjusted.

Edmonton-Dunvegan Railway.—This contract was being worked from mile 85 to 218 out of Edmonton, Alberta. His chief sub-contractors were Windsor, Negro, Fallis and Dechene, Murphy, MacPherson and Quigley, and many smaller men. There were 1,100 men on the 133 miles. Dr. Farquharson, of Edmonton, has charge of the medical service, and engaged Dr. Astoff at end of the steel, Dr. Gibson at Mirror Landing, and Dr. Hall at Grouard. The only thing of a contagious character to give trouble was an outbreak of prairie itch. One bad eye accident occurred, but otherwise there was nothing to note.

Grand Trunk Pacific, from Mile 53 West of Yellowhead pass (Alberta-British Columbia boundary) to Mile 319 British Columbia.—This is the last of the contracts on the Grand Trunk Pacific between Edmonton and Prince Rupert.

Foley, Welsh and Stewart are the first contractors. They have many large and small caches, manned by clerks, 500 scowmen operating mostly on the Fraser river, track-laying and ballasting and bridge and telegraph gangs. The extensive sub-contractors are Bates and Rogers, with six large camps of their own; McPeck, on wooden bridges; Canadian Bridge Co., on steel bridges; Burns Jordon Co.; A. E. Griffin; and Seims Carey Co. The last three firms have some 48 sub-contractors, who in some cases re-sublet. At one time, during a rush period, the number of employees on 265 miles of work ran up to over 7,000. It is now down to a quarter of that, owing to the connection rails being laid during April, 1914. Some hundreds of men will be engaged for a few months widening cuts and finishing for operation of road. Dr. Ewing, of Vancouver, had the contract for the medical service. His assistants, who were each located in a hospital, were Dr. Swenerton, of Fort George; Dr. Kearney, Willow Creek; Dr. Blakslee, mile 169; Dr. Leacock, Tête Jaune; Dr. Wagner, Mile 288; Dr. Ferguson, Fraser Lake; Dr. Park, Burns Lake. The medical service was not as good as it should have been, and at the present is largely replaced by the Grand Trunk Pacific surgeons who have gone on the ground for the operating department of the railroad. The exigencies of building this line were greater than on any other in the West, and the number of drowning and grade accidents was a somewhat higher percentage. The epidemic diseases were much less than during previous years of work through the mountains.

Canadian Pacific Railway Double Track, Rogers Pass Tunnel.—This is a 5-mile tunnel, with several miles of approach. These approaches are known at one end as Cambie Camp and at the other as Bear Creek Camp, and had respectively 220 and 180 men at work. Foley, Welsh and Stewart are the contractors, and expect to be from three to four years doing the tunnel. Dr. MacArthur is on the work for Dr. Ker, who is in charge, and a hospital has been erected at the Cambie end.

Canadian Pacific Railway, Double-tracking from Revelstoke to Taft.—Grant Smith and McDonell, Limited, have the contract. Their sub-contractors were Murchison Wilson and Co.; Salvas, Bright and McDonald; Westberg, Bruce and Maguire. Nine hundred and ten men were employed on 24 miles. Dr. Gilchrist, of Three Valley, furnished the line service, and sent hospital cases to Drs. Sutherland and Hamilton, of Revelstoke. There was no sickness to report.

Kettle Valley Railroad from Hope, B.C., to Coquahalla.—McArthur Bros., of Hope, and a sub-contractor, Bright and McDonald, had 500 at work on 23 miles, with Dr. Whitehouse, of Hope, and Dr. Gillis, of Merritt, attending the men from either end. Good provision had been made for accidents because of heavy rock work.

Canadian Pacific Railway Double-tracking, Kamloops west to Tranquille and east to Pritchard.—Grant Smith and Co., with three sub-contractors, Holly, Owens and Tupper; Schacht; and Zimmerman, covered the 50 miles, performing the work with 121 men. Dr. Burris Archibald and Burris, of Kamloops, using the Kamloops hospital, took care of the employees, and kept Dr. Agnew on the line. The general health was not good, and there was an outbreak of fifteen cases of typhoid, mostly from one camp down the Thompson river below Kamloops, and supposed to be due to Kamloops sewage in the river. Ignorant men and foreigners will continue to drink river water at any point in the stream and in any part of the West, regardless of warnings.

Kettle Valley Railway, British Columbia, from Hydraulic Summit east of Kelowna to Penticton at south end of Okanagan lake.—Grant Smith and Co. were the chief contractors on this part of the line. Their sub-contractors were Chew; Morrissy and Co.; Swan, Benson and Co.; Baker; Kimball Bros. and Campbell;

Griffin, Hunt Co.; King, Walsh Co.; Harmount and Co.; Dovenport, Gray Co.; Brandt Co.; Valley Construction Co.; Schacht Co. There were 1,730 employees on 76 miles. The general health of the camps was good. Dr. Ker is in charge of the medical service, and has on the work Dr. Bruce in Okanagan Mission hospital, near Kelowna, and Dr. Petman on the line, Dr. Cruikshank at Carmi, and Dr. Robinson at Narawanta. Among the serious cases reported was three typhoid, three crushed to death, one death from appendicitis, and one from hernia.

Canadian Northern Pacific.—The termini are Victoria, B.C., and Alberni, on the west coast of Vancouver island, and a line of 17 miles from Victoria to North Saanich. Moore and Pethick with Ledingham and Cooper, and Murdock and Co., with Proctor and Headman as sub-contractors, with 655 men, are soon to finish the work. Nettleton, Bruce and Echback, with 150 men, are on the North Saanich line. Dr. Bechtel, Dr. Luton, and Dr. Asselstine, employed by Drs. Mackenzie and Mackenzie, are the medical men, with one hospital in Victoria and two on the line. No infectious diseases outside of mumps has affected the camps, but surgical cases were common, with several showing long hospital records.

Canadian Pacific Railway, Esquimalt and Nanaimo Line, known as Comox Extension.—Moore and Pethick, Hoard and Cullerton were the three contractors. They had 385 men on 30 miles of work in charge of Dr. McNaughton, of Cumberland. The service was excellent, and no sickness of importance existed.

The different contracts are taken up above in the order in which first visits were made to them, and the mileage (2,282) and number of employees (24,465) is given as found at that time.

I have the honour to be, sir,
Your obedient servant,

A. E. CLENDENAN,
Public Works Health Inspector.

The Honourable the Minister of Agriculture,
Ottawa.

MISCELLANEOUS.

APPENDIX No. 18.

EXHIBITIONS.

OTTAWA, March 31, 1914.

Sir,—I have the honour to submit the following report of the operations of the Exhibition Branch of your Department for the fiscal year ending March 31, 1914.

On the beginning of the month of April, 1913, we were busy constructing our pavilion at the Ghent Universal and International Exposition, for which we had been awarded by the executive of the Exposition a piece of land measuring four hundred and twenty-five feet by two hundred feet (425 feet by 200 feet).

Our building, which was of the Greek-Renaissance style, covered an area of forty-five thousand (45,000) square feet, and was considered one of the best constructions on the grounds. It occupied a very favourable position on account of its being situated near one of the main entrances and surrounded by Belgian national constructions, such as the Palaces of the Cities of Brussels, Liege, Antwerp and Ostend; it was also in close proximity to the Belgian Colonial Palace, which had been erected by the Belgian Government at great cost.

Our exhibit was one of the few that were ready for the opening day of the exhibition, and this fact was very favourably commented upon by the newspapers and the public.

I shall not give you a detailed report of our exhibit, as it was practically on the same lines as at previous exhibitions, viz., a display of our agricultural, horticultural, forestry, fishery, and mineral resources. In the decorative display of grain and grasses we surpassed anything that we had attempted in the past, which no doubt contributed to a large extent to attract the numerous visitors that came to the pavilion.

A large quantity of literature on Canada was distributed to the public; the visitors very eagerly sought to obtain copies of our atlases and other publications.

Our information bureau was constantly kept busy answering the queries of people interested in Canada, and from all appearances our participation will bring good results.

The Ghent Exposition was not visited to a large extent by those classes that patronize the large hotels and shops; from that point of view the attendance was rather disappointing to the management of the exhibition. But I may say without fear of contradiction, that the attendance of the people in which Canada is most interested, viz., the populations of rural districts, was the largest that ever attended our exhibit at previous expositions; and I am glad to report that Canada was very popular among them, and our pavilion the most patronized building on the grounds.

Canada was awarded the Grand Prix for its collective exhibit.

The exposition closed on the third of November, 1913, and we proceeded at once to sort and pack our exhibit ready for shipment.

A few months after our section was opened to the public in Ghent, I commenced to pay attention to the preliminary work in connection with our intended participa-

tion at the Panama-Pacific International Exposition. I had the plans for our building prepared, so as to be ready to begin the construction work as soon as I arrived in San Francisco.

I left Belgium on November 22, accompanied by some members of this commission whose presence was not required for the completion of the work in Ghent, and arrived in San Francisco on the 14th of January, after a short stay in Canada, where some preliminary work had also to be done.

The construction of our building at the Panama-Pacific International Exposition is now well under way, and I have no doubt that our section will be ready for the day of the opening, February 22, 1915. We will spare no efforts to make our exhibit as attracive as possible, and I feel confident that the same will be a credit to Canada.

I have the honour to be, sir,

Your obedient servant,

WM. HUTCHISON.

Canadian Exhibition Commissioner.

The Honourable the Minister of Agriculture,

MARTIN BURRELL, M.P.,

Ottawa.

APPENDIX No. 19.

INTERNATIONAL INSTITUTE OF AGRICULTURE.

ROME, ITALY, June 7, 1913.

Sir,—I have the honour to submit the following report as to the proceedings of the General Assembly of the International Agricultural Institute, held at Rome, May 6 to 12, 1913.

The Canadian delegation, of which Mr. Philemon Cousineau, K.C., LL.D., was the chairman, consisted also of Mr. R. F. Stupart, F.R.S.C., F.R.A.S.C., director of the Canadian Meteorological Service, who had also just attended a meeting at Rome of the International Meteorological Committee; Mr. H. G. Dering, M.V.O., first councillor of the British Embassy at Rome; and Mr. T. K. Doherty, LL.B., chief officer of the Publications Branch of the Department of Agriculture and Commissioner of the International Agricultural Institute for Canada.

The British delegation consisted of Sir Sydney Olivier, K.C.M.G., permanent secretary of the Board of Agriculture and Fisheries; Sir Robert Wright, president of the Department of Agriculture for Scotland; Mr. T. P. Gill, secretary of the Department of Agriculture and Technical Instruction for Ireland; and Mr. H. G. Dering, M.V.O., first councillor of the British Embassy at Rome, and delegate on the Permanent Committee of the Institute for Great Britain and other British Dominions, including Canada, which is indebted to him for particularly valuable service in this connection.

Sir Edward Buck, K.C.I., who represents India on the Permanent Committee, was also a delegate to the General Assembly. The Union of South Africa was represented by Mr. J. B. Moffat, director of the census.

The friendly feeling, good fellowship and collaboration between the members of the British delegation and the members of the Canadian delegation were productive of excellent results.

There were large representations from the leading countries: Germany sending eight delegates; Austria, five; Hungary, six; Belgium, four; Spain, four; the United States, five; France, six; Italy, eleven; and Russia, five.

The opening meeting of the General Assembly was held on May 6, when Professor Vittorio Emanuele Orlando, member of the Italian Chamber of Deputies, was elected president of the Assembly; Baron Bernhard von Ehrenfels, president of the Royal Imperial Society of Agriculture, Vienna, member of the Diet for Lower Austria; and Mr. de Vuyst, director-general of the Agricultural Bureau of the Belgium Department of Agriculture and Public Works, were elected vice-presidents.

Their Majesties the King and Queen of Italy, whose visit to the palace of the Institute has, at preceding General Assemblies, been made at the opening of the proceedings, took place this year on the Sunday immediately preceding the close, so that the one hundred odd delegates from the United States, who had just arrived in Rome to begin their investigations of European Agricultural Credit Systems, might have the opportunity of being presented to Their Majesties at the same time as the members of the General Assembly. The Marquis Cappelli, permanent president of the Institute, read an address of welcome to the Italian sovereigns, and thanked His Majesty for his interest in and support of the Institute. The Honourable Mr. Nitti, Italian Minister of Agriculture, Industry and Commerce, replied on behalf of His Majesty with cordial words of welcome to the delegates. Complimentary addresses were also read to Their Majesties by the American Co-operative Credit delegation. This personal attention accorded to the delegates by Their Majesties was the source of great encouragement and inspiration to us all.

The business transacted by the General Assembly was divided under the following heads:

1. Administration—
   (*a*) Review of the past work of the Institute.
   (*b*) Finance.
2. Agricultural statistics.
3. Statistics of live stock.
4. Commercial statistics.
5. The protection of birds.
6. Statistics of fertilizers.
7. Dry farming.
8. Agricultural book-keeping.
9. Agricultural meteorology.
10. The diseases of plants.
11. Statistics of co-operation.
12. Insurance against loss by hail.

Reports with reference to each of these subjects, prepared by a member of the Permanent Committee of the Institute appointed for the purpose, together with the conclusions of the Permanent Committee thereon, were submitted to the Assembly and referred respectively to one of four large committees appointed to consider the various subjects in detail.

I.—Administration.

Review of the past work of the Institute.

A report as to the work of the Institute during the two years which had elapsed since the last General Assembly, in May, 1911, was presented by Marquis Cappelli,

president of the Institute. Reference can be made here to only a few of the leading features of that very interesting report.

In May, 1911, the States represented were 48 in number; they are now 53. The five new States to adhere are Paraguay, the Union of South Africa, Guatemala, Dutch East Indies, Tripolitania and Cyrenaica. The adherence of these additional States affords valuable evidence of the esteem in which the Institute is held and the useful results it is beginning to yield.

Two years ago the publications of the Institute had hardly been started. The first Bulletins of Agricultural Statistics had appeared a little more than a year before, and it was only six months previous to the last Assembly that the publication of the large Bulletins of Agricultural Intelligence and Plant Diseases and of Economic and Social Intelligence had commenced. These latter publications had, however, not yet assumed their normal form. At the cost of considerable effort they have succeeded in increasing their intrinsic value and in rendering their publication more regular, while provision has already been or is being made for publishing editions in six different languages, which is a matter of considerable difficulty. Apart from the special contribution of 25,000 francs which the Institute grants for each language, principally for the purposes of propaganda, the countries speaking the language defray the expenses of translation.

In these editions in French, English, Italian, German, Spanish and Hungarian, almost 600,000,000 people may read in their own languages the publications of the Institute. There could be no better proof of the value of the publications than the fact that the countries at the head of agricultural progress are publishing editions of them in their own language at their own expense.

The president reviewed the work of the four different Bureaus: (1) Bureau of the Geueral Secretary (including the administrative and financial divisions); (2) the bureau of General Statistics; (3) the bureau of Agricultural Intelligence and Plant Diseases; (4) the bureau of Economic and Social Institutions.

Under the first head the president explained the financial situation of the Institute, which called for an increase of the regular contribution by the adhering States, from 1,500 francs per unit, which has been paid up to the present time, to 2,500 francs per unit, from January 1, 1914. It is expected thus to increase by about $60,000 the normal annual receipts, which amount now to about $163,000. In the last two years there had been difficulty in keeping the expenditure within the limits of the ordinary estimates. The reserve fund, which in December, 1910, amounted to about $133,000, had been reduced in December, 1912, to about $109,000.

This decrease is to a small extent due to the impossibility of keeping the ordinary expenditure within the limits of the ordinary estimates; for the most part it is due to extraordinary expenditure. The necessity of expenditure of this character will be also felt in the future, both for requirements which may be already foreseen and for others which cannot be foreseen, but which may be expected. A few of the first kind are mentioned. Sooner or later there will have to be contributions to editions in other languages. Besides, they will have, as soon as possible, to reduce the rate of subscription, in order that the circulation of their bulletins may be increased. This, as is evident, will, for some years, mean a reduction of income, which will afterwards return to the former amount and perhaps exceed it. However, to meet the deficit in the first period, they have only their reserve fund to count upon. The time is perhaps not far off when, for a year or two, they will have to devote the generous contribution of the King of Italy to the enlargement of the building which they are beginning to find too small, both for the requirements of the offices, and for housing the less important publications, for which they have had to find a place outside the building of the Institute. The contribution of the King of Italy ($60,000 annually) is given in the first place in order that the Institute may have a palace worthy of itself

in Rome, and in the second place, to be used with the contributions of the States for ordinary working purposes.

If this necessity occurs, a considerable amount will have to be drawn from the reserve fund for a year or two. Not only will the reserve fund have to be re-established and increased with a view to future requirements, but the ordinary expenditure itself will be larger. The heads of the bureau are asking for additional employees, etc. For all these reasons, they have requested the States that the unit of contribution may, from 1914, be raised to 2,500 francs.

The president invites attention to the International Year Book of Agricultural Legislation, of which the Institute has just distributed the second issue for the year 1912. This is a collection of all the laws relating to agriculture promulgated in the whole world. Important laws are given in full, in French, the official language of the Institute. In the case of those of less importance only the title and exact date of publications are given, or an extract from the law and executive regulations. Dr. Dade, president of the German Landwirtschaftsrat, writing in the *Zeitschrift fur Agrarpolitik*, has truly said of this publication: "This manual is indispensable for all bodies representing agricultural interests, for Government functionaries, members of Parliament and economists. This one publication is in itself sufficient to convince the world of the economic utility of the Institute." The Year Book contains an index arranged according to subject-matter and States, and will be of the utmost importance to statesmen of every land. Desires have been expressed for editions at least in English and in German, but the Institute has not the requisite funds.

It is unnecessary to refer here to the observations made by the president concerning the other bureaus. It is more convenient to take up separately each of the four bureaus whose work was considered at the General Assembly by four corresponding committees. Under the heading of each committee we shall group the subjects (already enumerated) and deal with each group in such manner as to reflect, although briefly, the deliberations and the decisions of the General Assembly.

FIRST COMMITTEE.

(Administrative Questions.)

Decisions I-VI.—The General Assembly having heard the administrative report of the president, heartily approved it, and presented congratulations and thanks to the president, to the members of the permanent committee and to the officials of the various services of the Institute. The president was also requested to present to His Majesty the King, who, by his presence at the Institute, had given evidence of his continued interest, the expression of the respectful homage and deep gratitude of the Assembly.

As in 1911, the permanent committee is once more requested to forward to the Governments reports on the questions to be discussed at the next General Assembly at least two months in advance of the date fixed for its opening, which would be in May, 1915.

On the proposal of Mr. Lesage, of Paris, the permanent committee were requested to study the question of preparing and publishing a vocabulary of the principal terms used in agriculture.

The proposed increase of the annual contribution to the maximum provided by the Convention of 1905 was approved, as were also the financial statements for the years 1911, 1912 and 1913. The sum of $220,000 was voted for 1914, and an equal sum for 1915, plus any balance that might remain from the previous year.

SECOND COMMITTEE.

Agricultural and Commercial Statistics—Agricultural Statistics.

Decision I.—The General Assembly, deriving its inspiration from the ideas that led to the creation of the Institute, expresses the wish that the adhering Governments use every endeavour to assist the Institute in accomplishing one of its principal missions, a mission which consists in organizing a regular international service of exact, rapid and complete information concerning animal and vegetable production and concerning the consumption, commerce, and prices of agricultural products. The permanent committee is invited to make such budgetary provision from the general sums voted as will insure as completely as possible for the future the development of such a service.

It was intended by this decision to insist on the great relative importance of this work, Dr. Müeller, who had presented a very able report on the subject, wished to have it stated that this was the Institute's "principal mission." Mr. Lesage's compromise amendment calling it "one of the Institute's principal missions" was accepted.

Decision II.—The Assembly, taking note of the improvements which have been introduced or are intended to be introduced into their agricultural statistical services, believes that, in order to place the Institute in a position to furnish a rapid, complete and effective international service of information, further efforts should once more be requested of the adhering States. The permanent committee are therefore invited to ascertain, product by product, the improvements that each of the States should introduce into its statistical system for the purpose of establishing the international service on solid basis; the results of the investigation to be communicated to each Government with a request that it adopt such measures as will meet the requirements of the Institute's services.

Upon the proposal of Mr. Doherty, one of the Canadian delegates, the expression "rapid" was introduced into the foregoing decision, so as to emphasize the relative importance of the element of speed in gathering and transmitting the crop reports, first from the field to the National Central Office, next from the National Office to the Institute, which should with equal speed cable summaries to the world. At present during the growing season the reports are cabled to the Institute at dates varying between the 8th and the 15th of the month, the latter date being the limit allowed by the Institute, and the Institute issues its Bulletin on the Saturday nearest the 20th of the month, that is on dates varying between the 17th and the 23rd. At this late date the news has become stale; the speculators and the commercial community are in possession of the facts communicated to the press in the different countries at intervals between the 8th and the 15th. The issuing of supplements by the Institute is not sufficient. It is desirable to request the Governments to allow their field correspondents a shorter delay for transmitting reports to the Central Statistical Office. That delay should be cut down to four or five days, instead of the eight or ten as at present. If necessary, statistical centres should be established at points which are too far distant from the Central Office for rapid transmission by mail, so that at such points summaries could be prepared for a whole province or a whole district and telegraphed to the Central Office. This is done in the United States; with the result that the crop report is issued on the 7th of the month.

Mr. Doherty made a special communication to emphasize these points, and to define more particularly what meaning might be ascribed by the permanent committee to the word "rapid" in the decision in question. An educative campaign should be undertaken, so that a great majority of the important producing countries might recognize the reasonableness and practical benefit of greater speed. Later the

Institute might fix the 10th of the month as the limit for the transmission of the data by the national services; enabling the Institute, by noon the next day, to cable to the adhering countries a summary of the data, which would appear a day or two later in greater detail in the monthly Bulletin. The same argument would apply equally to the commercial statistics and prices which are published in the same Bulletin.

The proposal for such an effective service could not be accepted by the Institute for immediate action, but by the next General Assembly (May, 1915) the adhering Governments might be prepared to undertake the consequent responsibilities.

An assurance was given by the president that Mr. Doherty's proposal would be placed on the Order Paper for discussion at the first meeting of the permanent committee after the holidays. On January 24, 1914, the second commission of the Institute reported favourably through its president, Dr. Müeller, of Germany. The permanent committee, at its meeting of March 12, concurred and declared its belief in the possibility of bringing about the earlier publication of the "Bulletin of Agricultural Statistics," and instructed the general secretary to communicate with the various Governments to endeavour to secure from them a more rapid transmission of official data.

Decision III.—The Assembly solicits co-operation of the Governments towards making the International Agricultural Year Book a complete work for purposes of comparison, relating to the production, commerce, consumption, and prices of agricultural products.

Decision IV. —A similar appeal is made to the International Statistical Congress —whose members are to meet in Vienna next autumn—asking that they take up the question of the unification of the statistics relating to cultivated areas and to preliminary, provisional and final estimates of yield, in such manner as to make specific recommendations. The permanent committee are invited to prepare a scheme of the proposals that should be submitted to the members of the Institute in time to help them to solve the question within the present year.

Decision V.—On the proposal of M. le Chev. de Weil, one of the delegates for Austria, the Governments are to be requested to report: (1) On the Crop Correspondents' methods of procedure in the field in furnishing to the Statistical Offices the elements of inquiry into the condition of crops; (2) stating precisely whether they simply give their appreciation on the appearance of the growing crops at the moment of the investigation (for instance in the form of such notes as: "very good," "good," "pretty good," etc.), or whether they formulate their opinion according to the presumed extent of the future crop, in giving, for instance, indications of the probable average yield per unit of area; (3) what reasons have led to the adoption of the method in use, giving, if need be, the reasons which would not permit following in the future the method advocated in this regard by the Institute.

The permanent committee are requested to see that in the future there may be made in the publications a very clear distinction between the estimates made before harvest and those made subsequently.

Live Stock Statistics.

The proposals presented on behalf of the permanent committee were in general adopted. A few changes were made in agreement with the reporter, M. de Pozzi, of Austria, for the purpose of giving to the resolutions more precision and clearness.

Decision I.—The Assembly believes it to be absolutely necessary, in the national and the international interests, that each State should have the benefit of live stock

statistics. Where none exist, or where they are not organized in such manner as to satisfy the requirements of an international service, request is made that such services be organized as soon as possible.

Decision II.—The Assembly is of the opinion that such statistics should make known every year the number of heads of each kind, and for each of the classes specifically mentioned hereunder. If the immediate creation of so detailed an enumeration is not, in certain countries, possible, these are requested at least from the year 1920 to make a decennial census of such character and compile annual statistics of a more limited scope.

Decision III.—The period recommended for the enumeration, in either case, is that comprised between the months of December and April, provisional results at least to be published within a delay of three months after enumeration. This recommendation is the result of a compromise between the delegates who desired the adoption of a uniform fixed date, and those who wished to leave some latitude to the various Governments to permit of their choosing for the enumeration the date when the effective number of their live stock would be at its maximum, or a date that would accord with administrative necessities.

The Assembly asks for the adoption of a classification, which, while corresponding best to the particular conditions of each State, may render possible the tabulation of the data under the following classifications:

Horses.—(1) Colts and fillies; (2) stallions used for breeding purposes; (3) animals not comprised in the preceding classes.

Cattle.—(1) Animals under one year; (2) steers, bullocks and heifers; (3) cows; (4) bulls; (5) oxen.

Sheep.—(1) Lambs and ewes under one year; (2) rams one year or over; (3) ewes one year or over; (4) sheep one year or over.

Swine.—(1) Young pigs; (2) pigs in the course of fattening; (3) sows; (4) boars.

The Caprine Species.—Total number of the species.

The preceding proposal, as submitted by the permanent committee, which comprises two lists of classes for each kind of animal, relating one to general census periods and the other to monthly statistics, was changed as above to place it in harmony with the decision reached to lay down as a principle that it was desirable to see established live stock statistics as detailed as possible. Consequently the above single list was drawn up, and it was well understood that, in the case of annual statistics of a more limited character, the enumeration would involve the fusion of all or of a part of the classes provided in the schedule for each of the species, but would nevertheless remain within the table as outlined, so as to render easily comparable between themselves various sets of statistics. The classes were established after careful examination and much discussion, with a regard for all interests concerned. The able statements made by the delegates for Holland were chiefly responsible for the changes made in the original resolutions: a compromise which was skilfully managed by Mr. Lesage, of Paris.

Decision V.—The permanent committee are requested to present to the next Assembly a detailed report on the systems of live stock statistics in the various countries.

Decision VI.—The Assembly is of the opinion that such statistics would be happily completed by the publication of information, as detailed as possible, on the

consumption and commerce in meat, and instructs the permanent committee to investigate and report on the subject for the next General Meeting.

Commercial Statistics.

Decision I.—The permanent committee are to continue the policy outlined in the 1911 decisions; regular monthly publication of imports, exports, visible supply and prices of wheat, rye, oats, barley, corn and cotton. Information concerning visible supply and prices, will, with the authorization of the Governments concerned, be obtained from other sources in the absence of official information.

Decision II.—The commercial movement of cereals and customs statistics are to be investigated and report made to the next Assembly, as outlined by the decisions of 1911. The organization of the customs statistics and the methods followed in the adhering countries will be studied, and careful account taken of the results of congresses held by customs services.

Decision III.—Statistical services are requested to compile at least once a year, at the time of the first numerical estimate, the invisible supply of the cereals (stocks in farmers' hands). This information would be published only on the authorization of the Governments.

Decision IV.—The Assembly insists that the Governments apply themselves to perfecting their services of information on the visible supply of the five cereals mentioned, and organize a monthly service if they do not already possess one.

Decision V.—With regard to prices, the Institute is to continue its studies based on a detailed investigation to be made on the organization of the principal markets of agricultural products, the practices of the trade and the elements that make up the composition of prices. Again, with the authorization of the Governments, recourse will be had to private sources of information if necessary, so as to secure specific information concerning each market.

In this connection a very interesting communication was read by Mr. Lubin, who would like to see published by the Institute, with the prices, indications of the value of the different factors that enter into the formation of the prices, such as: (1) The price paid to the farmer; (2) cost of transportation by land and by sea; (3) the customs duty; (4) brokerage; (5) insurance, etc. This would provide a means of detecting any cause which might be operating adversely on the formation of prices. The public would be given the kind of information which is now usually at the command of large buyers. Mr. Lubin also referred to the usefulness of direct action by the Institute for the purpose of reducing freight charges, in furnishing to the shipping interests the information needed to regulate, to the best interests of all concerned, the course of their operations on the outward and on the return voyages. Since the General Assembly, the permanent committee has adopted Mr. Lubin's proposal, and is to ask the adhering Governments for the requisite information.

THIRD COMMITTEE.

Protection of Birds.

Decisions I. and II.—The Assembly declares its satisfaction because of the measures adopted in the last two years by certain countries, and requests the permanent committee to continue its work of propaganda and report to the next General Assembly. The report of Mr. Ed. de Miklos, of Hungary, on this subject, is replete with interesting facts; as is also the communication made by Mr. A. A. Silantieff, of Russia, on the "Protection of Birds in Russia."

Statistics of Fertilizers.

Decisions I. and II.—The Institute Bureau of Agricultural Intelligence will publish, in one of its Bulletins in the spring and in one in the fall of every year, a review giving and illustrating all the official and non-official information it may be able to collect on the subject of the production, consumption and commerce of agricultural fertilizers, and their effects on the progress of that industry. The same thing will be done annually in the Statistical Year Book of Agriculture. The permanent committee will consider the means to suggest to the Government to enable them to organize, complete and render uniform the statistics of the production, consumption and commerce of fertilizers intended for agriculture.

Dry-farming.

The Assembly, noting the wide extension of the application of the new methods to the cultivation of arid lands, and the results obtained by these methods, as shown by the Report of the Proceedings of the Seventh Dry-farming Congress, held at Lethbridge, Canada, in 1912, instructs the permanent committee to pursue its work of securing information on this question, and to again invite the Governments to send to the Institute the results of their experiments.

Agricultural Bookkeeping.

The Assembly—on the report of Dr. Laur, of Switzerland, where agricultural bookkeeping has been thoroughly organized—requests the Institute to prepare for its next meeting a report with the view of extending institutions for agricultural bookkeeping to as many countries as possible, to the end that the Institute may, in time, utilize the results of these institutions for the purposes of statistical and economic studies.

Agricultural Meteorology.

This question has now entered the sphere of international action, as a result of the proceedings of the meeting at Rome, April 7, 1913, of the International Meteorological Committee. Mr. R. F. Stupart, one of the Canadian delegates to the General Assembly, took an active part in the deliberations of the International Meteorological Committee, of which he was also a member.

Dr. Shaw, president of the International Meteorological Committee, and director of the Meteorological Service of Great Britain, reported to the president of the Institute, that in the first place, he had asked the meteorological services of all the countries to communicate the regulations they have already adopted for the meteorological service in its relations with agriculture.

And, in view of the meeting which had been held the previous week at Rome, the bureau of the committee had asked Mr. Angot, director of the Central Meteorological Bureau of France, and Mr. Palazzo (director of the Italian service) to convoke at Paris a provisional committee for the purpose of formulating a definite proposal.

The provisional committee held a meeting at the end of September last year, at which there attended, besides Mr. Angot and Mr. Palazzo, Mr. Bornstein, Mr. Brounoff, and Mr. Dop. It has proposed to the International Committee to designate a commission for the study of the various questions of agricultural meteorology.

According to custom, such a commission of the committee is practically permanent. It has the power to regulate its proceedings and to choose additional members. On the occasion of the next meeting of the committee the president of the commission will present a report of the proceedings.

At the meeting of April 7, the committee adopted the above-mentioned proposal. It appointed Mr. Angot, president of the permanent commission, and, as members of the commission, Messrs. Bornstein (Germany), Broounoff (Russia), Dop (France), Hergesell (Germany), Palazzo (Italy), Ryder (Denmark), and Stupart (Canada)—with the president at the service of the commission ex-officio.

It was recognized that agricultural meteorology embraces, in addition to questions forecasting the weather, the study of the application of meteorological data, already numerous, to the service of agriculture, which requires a careful organization and work of rather considerable extent. It will be the duty of the commission to do its utmost to promote that organization and to insure the performance of the necessary work.

In view of the exceptional importance of the question of agricultural meteorology, the committee trust that the above-mentioned methods of procedure will lead to good results, and asks the International Agricultural Institute to extend its aid.

Decision I.—In view of this report of Dr. Shaw, conveyed through Mr. Dop (of France) to the General Assembly, the Assembly decides to present to the International Meteorological Committee, through the president of the Institute, the expression of its gratitude to that committee for its favourable treatment of the proposals formulated by the General Assembly of 1911, and especially for the creation of the Permanent International Commission of Agricultural Meteorology.

Decision II.—The report of Mr. Dop (1913), with the approval of the Assembly, will be officially transmitted to the president of the commission to serve as the basis of its labours.

Decision III.—The Assembly is of the opinion that the permanent commission should be composed of meteorologists, agronomists, botanists, phytopathologists, and agrogeologists.

Hence Mr. Dop states in his report that it will be the privilege of each of the States to communicate to the president of the permanent commission the names of the persons whom they desire should form part of that commission.

Decision IV.—The Assembly expresses the wish that the permanent commission may examine the following questions:

1. Statistics of the maximum losses caused by storms.
2. Importance of daily weather reports in drawing up statistics of favourable conditions.
3. Study of the factors that contribute to increased crop yield. Tendency towards maximum yield.
4. Study of the relations between the yield of a crop and the various atmospheric factors.
5. Standardizing of a good agricultural year from the atmospheric standpoint.
6. The drawing up of a scheme of annotation or a percentage scale indicating a good year or an average year.
7. Study of the factors which go to make a good year.
8. Study of the several factors which contribute to the production of a good crop:
   - (*a*) Time required to insure a good crop;
   - (*b*) Hours of sunshine required for a good crop;
   - (*c*) Amount of heat required for a good crop;
   - (*d*) Rainfall required for a good crop.
9. Preparation of schedules of inquiry to be sent to farmers.

The Diseases of Plants.

Convinced of the importance of an international entente in the campaign against the diseases of plants, the phytopathologists that attended at Paris the Congress of Comparative Pathology, decided, on the initiative of Mr. Dop, to request the French Government to convoke at Rome a meeting of the specialists charged with the study of the question. The meeting could not be held.

Decisions I. and II.—Upon the report of Prof. Cuboni, on behalf of the permanent committee, and of Mr. Foex (of France) on behalf of the competent committee of the General Assembly, that Assembly recognizes that the meeting of an international commission of specialists is indispensable, and expresses the wish that the French Government may follow up the initiative it has already taken by bringing about a meeting of an international commission as soon as possible, and in May, 1914, at the latest.

Decisions III. and IV.—The Assembly is of the opinion that at each of its meetings the specialists of the adhering Governments should meet in a special commission for the purpose of coming to an understanding on common researches and studies; and it solicits the adhering States to study from the present moment the various questions which form the object of the studies of the International Commission of Phytopathologists on the basis of the materials furnished by the Institute.

The International Phytopathological Conference was held at Rome, February 24 to March 4, and was attended on behalf of Canada, by Mr. H. T. Güssow, Dominion Botanist, who was one of the signers of the "Acte Final" for the creation of a permanent International Phytopathological Commission. The object of the conference was to perfect arrangements for the control of plant diseases, and which, subject to certain conditions, would permit the transmission, through the ordinary channels of trade, of nursery stock intended for export.

The Adulteration of Seeds.

The Assembly, on the report of Mr. Jacsewski, of the Imperial Experiment Station, St. Petersburg, concerning the publication of the results of expert tests of seed and grain, and recognizing all the practical importance of rapid and widespread information on the subject, expresses the wish that the permanent committee may examine the question of the insertion in the periodical Bulletin of the Institute information concerning the adulteration of seeds and grain and of the noxious mixtures that may be found in seed grain, which information should be furnished by the Government seed-testing stations. The Assembly considers that the permanent committee should advise the adhering States to require the seed-testing stations to forward such data to the Institute.

FOURTH COMMITTEE.

Economic and Social Institutions.—Statistics of Agricultural Co-operation.

In his report under this head, the delegate of Austria, M. de Pozzi, stated that in accordance with the decisions of the General Assembly in 1911, the president of the Institute invited all the adhering Governments to state what action they were prepared to take toward organizing international statistics of agricultural co-operation. Fourteen Governments have replied. Austria, Spain, France, Italy, and Belgium state that they are now organizing or revising their systems of statistics of co-operation and will take into consideration the requirements of the Institute in this matter. Holland, Switzerland, Denmark, Germany, Japan, and Great Britain state that they are already in a position to supply the Institute with most of the information it requires. Sweden, Mexico, and the United States state that they are not yet in a position to give the information asked for. The reporter stated:

"It is gratifying to note that the Governments of several countries of great importance for the development of agricultural co-operation have willingly fallen in with the ideas of the Institute for the organization of an international statistical service for agricultural co-operation."

The following resolutions were unanimously adopted by the Fourth Commission, before which the report came up for consideration, and by the General Assembly:

"1. The General Assembly notes with satisfaction the results so far attained by the inquiry made by the permanent committee on the organization of an international service of statistics of agricultural co-operation on the basis of the decisions of the third General Assembly, in so far as these are not incompatible with the legislation of the several adhering countries.

2. It instructs the permanent committee to continue this inquiry and to begin, as soon as possible, the regular publication of comparative statistical data on agricultural co-operation in the several countries.

"3. It instructs the permanent committee to submit to the next session of the General Assembly a report on the further results obtained by its labour in this field."

Statistics of Crop Insurance against Damage by Hail.

M. Bolle, delegate of Belgium, submitted on behalf of the permanent committee, a detailed report on this subject. In accordance with the decisions of the General Assembly in 1911, the adhering countries had been invited to reply to a questionnaire sent out by the Institute on the statistics of hail. Some Governments merely acknowledged receipt of this questionnaire without supplying the information asked for on the ground that hailstorms are not of importance in their countries, while others returned it duly filled in and forwarded the text of the laws enacted in their countries on hail insurance. These replies clearly show the great importance of insurance against hail and the utility of spreading, through the Institute's publications, a knowledge of the measures taken in the several countries to develop this form of insurance.

The following resolutions were adopted:

1. In view of the valuable services rendered to agriculture by insurance against hail, the General Assembly calls on the adhering Governments whose crops are threatened by this scourge to communicate regularly to the Institute, the legislative, administrative, or private measures taken within their jurisdiction to promote, encourage, develop and control insurance against hail.

2. The General Assembly instructs the permanent committee to spread a knowledge of these measures by means of the monthly Bulletin of the Bureau of Economic and Social Intelligence."

T. K. DOHERTY.

The Honourable the Minister of Agriculture,
Ottawa.